SEQUENCE LISTING

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Fronwald, James A.
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Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp Ala
             20                  25                  30

ctc ggg cgc ccc tcc gag gag gac gag gag cta gtg gtg ccg gag ctg   144
Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu
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ccg ctt ccg gaa acc gac ctg gcg cac tgc ttc tac tcc ggc acc gtg   336
Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val
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aat ggc gat ccc agc tcg gct gcc gcc ctc agc ctc tgc gag ggc gtg   384
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        115                 120                 125

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Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys Pro
145                 150                 155                 160

ccg gca cca cta cag ttc cac ctc ctg cgg cgg aat cgg cag ggc gac   528
Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly Asp
                165                 170                 175

gta ggc ggc acg tgc ggg gtc gtg gac gac gag ccc cgg ccg act ggg   576
Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr Gly
            180                 185                 190

aaa gcg gag acc gaa gac gag gac gaa ggg act gag ggc gag gac gaa   624
Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp Glu
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ggg cct cag tgg tcg ccg cag gac ccg gca ctg caa ggc gta gga cag   672
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ccc aca gga act gga agc ata aga aag aag cga ttt gtg tcc agt cac   720
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cac ggc agt ggt cta aag cat tac ctt ctc acg ttg ttt tcg gtg gca   816
His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val Ala
            260                 265                 270

gcc aga ttg tac aaa cac ccc agc att cgt aat tca gtt agc ctg gtg   864
Ala Arg Leu Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu Val
        275                 280                 285

gtg gtg aag atc ttg gtc atc cac gat gaa cag aag ggg ccg gaa gtg   912
Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val
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acc tcc aat gct gcc ctc act ctg cgg aac ttt tgc aac tgg cag aag   960
Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys
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att ctt ttc acc aga cag gac ttg tgt ggg tcc cag aca tgt gat act  1056
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ctt ggg atg gct gat gtt gga act gtg tgt gat ccg agc aga agc tgc  1104
Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser Cys
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tcc gtc ata gaa gat gat ggt tta caa gct gcc ttc acc aca gcc cat  1152
Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala His
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gaa tta ggc cac gtg ttt aac atg cca cat gat gat gca aag cag tgt  1200
Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln Cys
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gcc agc ctt aat ggt gtg aac cag gat tcc cac atg atg gcg tca atg  1248
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ctt tcc aac ctg gac cac agc cag cct tgg tct cct tgc agt gcc tac  1296
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Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met Asp
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aag cct cag aat ccc ata cag ctc cca ggc gat ctc cct ggc acc tcg  1392
Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr Ser
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tac gat gcc aac cgg cag tgc cag ttt aca ttt ggg gag gac tcc aaa  1440
Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser Lys
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His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr Gly
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        515                 520                 525

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Val Asn Lys Thr Asp Arg Lys His Phe Asp Thr Pro Phe His Gly Ser
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Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys Asn
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gga ggg aag tac tgt gaa ggc aaa cga gtg cgc tac aga tcc tgt aac   1776
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Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu Gln
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Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly Pro
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gcg gtg gaa tgg att ccc aag tac gct ggc gtc tca cca aag gac agg   1920
Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp Arg
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tgc aag ctc atc tgc caa gcc aaa ggc att ggc tac ttc ttc gtt ttg   1968
Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val Leu
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gtc tgt gtg caa gga cag tgt gta aaa gct ggt tgt gat cgc atc ata   2064
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gac tcc aaa aag aag ttt gat aaa tgt ggt gtt tgc ggg gga aat gga   2112
Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn Gly
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tct act tgt aaa aaa ata tca gga tca gtt act agt gca aaa cct gga   2160
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705                 710                 715                 720

tat cat gat atc atc aca att cca act gga gcc acc aac atc gaa gtg   2208
Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu Val
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atc aaa gct gct gat ggc aca tat att ctt aat ggt gac tac act ttg   2304
Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr Leu
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tcc acc tta gag caa gac att atg tac aaa ggt gtt gtc ttg agg tac   2352
Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg Tyr
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agc ggc tcc tct gcg gca ttg gaa aga att cgc agc ttt agc cct ctc   2400
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aaa gag ccc ttg acc atc cag gtt ctt act gtg ggc aat gcc ctt cga   2448
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cct aaa att aaa tac acc tac ttc gta aag aag aag aag gaa tct ttc   2496
Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser Phe
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aat gct atc ccc act ttt tca gca tgg gtc att gaa gag tgg ggc gaa   2544
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tgt tct aag tca tgt gaa ttg ggt tgg cag aga aga ctg gta gaa tgc   2592
Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys
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cga gac att aat gga cag cct gct tcc gag tgt gca aag gaa gtg aag   2640
Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys
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cca gcc agc acc aga cct tgt gca gac cat ccc tgc ccc cag tgg cag   2688
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ctg ggg gag tgg tca tca tgt tct aag acc tgt ggg aag ggt tac aaa   2736
Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys
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aaa aga agc ttg aag tgt ctg tcc cat gat gga ggg gtg tta tct cat   2784
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aca atg gca gaa tgc agt taa gtggtttaag tggtgttagc tttgaggcaa      2883
Thr Met Ala Glu Cys Ser
945                 950

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gttgaatcat cagagtaaac tgccagttgc aaatttgata ggatagttag tgaggattat 3063
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Glu Arg Ala Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe
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Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val
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Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly Val
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Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro Leu
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Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys Pro
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Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly Asp
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Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr Gly
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Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp Glu
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Ala Arg Leu Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu Val
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Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val
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Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys
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Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp Thr
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Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser Cys
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Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala His
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Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln Cys
385                 390                 395                 400

Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser Met
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Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Ala Tyr
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Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met Asp
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Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr Ser
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Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser Lys
465                 470                 475                 480

His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr Gly
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Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp Ala
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Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys Cys
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Val Asn Lys Thr Asp Arg Lys His Phe Asp Thr Pro Phe His Gly Ser
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Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp Arg
625                 630                 635                 640

Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val Leu
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Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr Ser
            660                 665                 670

Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile Ile
        675                 680                 685

Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn Gly
    690                 695                 700

Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro Gly
705                 710                 715                 720

Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu Val
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Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu Ala
            740                 745                 750

Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr Leu
        755                 760                 765

Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg Tyr
    770                 775                 780

Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro Leu
785                 790                 795                 800

Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu Arg
                805                 810                 815

Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser Phe
            820                 825                 830

Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly Glu
        835                 840                 845

Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys
    850                 855                 860

Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys
865                 870                 875                 880

Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp Gln
                885                 890                 895

Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys
            900                 905                 910
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Lys Arg Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser His
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ctg ctg ctg ctg ctg ctg ccg ctg gcc cgc ggc gcc ccg gcc cgg ccc   96
Leu Leu Leu Leu Leu Leu Pro Leu Ala Arg Gly Ala Pro Ala Arg Pro
            20                  25                  30

gca gcc ggg ggg cag gcc tcg gag ctg gtg gtg ccc acg cgg ttg ccc   144
Ala Ala Gly Gly Gln Ala Ser Glu Leu Val Val Pro Thr Arg Leu Pro
        35                  40                  45

ggc agc gcg ggc gag ctc gcg ctc cac ctg tcc gcc ttc ggc aag ggc   192
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ttc gtg ttg cgc ctg gcg ccc gac gac agc ttc ctg gcg ccc gag ttc   240
Phe Val Leu Arg Leu Ala Pro Asp Asp Ser Phe Leu Ala Pro Glu Phe
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Lys Ile Glu Arg Leu Gly Gly Ser Gly Arg Ala Thr Gly Gly Glu Arg
                 85                  90                  95

ggg ctg cgc ggc tgt ttt ttt tcc ggc acc gtg aat ggg gag ccc gag   336
Gly Leu Arg Gly Cys Phe Phe Ser Gly Thr Val Asn Gly Glu Pro Glu
            100                 105                 110

tcg ctg gcg gcg gtc agc ctg tgc cgc ggg ctg agc ggc tcc ttc ctg   384
Ser Leu Ala Ala Val Ser Leu Cys Arg Gly Leu Ser Gly Ser Phe Leu
        115                 120                 125

ctg gac ggc gag gag ttc acc atc cag ccg cag ggc gcg ggg ggc tcc   432
Leu Asp Gly Glu Glu Phe Thr Ile Gln Pro Gln Gly Ala Gly Gly Ser
    130                 135                 140

ctg gct cag ccg cac cgc ctg cag cgc tgg ggt ccc gcc gga gcc cgc   480
Leu Ala Gln Pro His Arg Leu Gln Arg Trp Gly Pro Ala Gly Ala Arg
145                 150                 155                 160

ccc ctc ccg cga gga ccc gag tgg gag gtg gag acg gga gag ggt cag   528
Pro Leu Pro Arg Gly Pro Glu Trp Glu Val Glu Thr Gly Glu Gly Gln
                165                 170                 175

agg cag gag aga gga gac cac cag gag gac agc gag gag gag agc caa   576
Arg Gln Glu Arg Gly Asp His Gln Glu Asp Ser Glu Glu Glu Ser Gln
            180                 185                 190

gaa gag gag gca gaa ggc gct agc gag ccg cca ccg ccc ctg ggg gcc   624
Glu Glu Glu Ala Glu Gly Ala Ser Glu Pro Pro Pro Pro Leu Gly Ala
        195                 200                 205

acg agt agg acc aag cgg ttt gtg tct gag gcg cgc ttc gtg gag acg   672
Thr Ser Arg Thr Lys Arg Phe Val Ser Glu Ala Arg Phe Val Glu Thr
    210                 215                 220

ctg ctg gtg gcc gat gcg tcc atg gct gcc ttc tac ggg gcc gac ctg   720
Leu Leu Val Ala Asp Ala Ser Met Ala Ala Phe Tyr Gly Ala Asp Leu
225                 230                 235                 240

cag aac cac atc ctg acg tta atg tct gtg gca gcc cga atc tac aag   768
Gln Asn His Ile Leu Thr Leu Met Ser Val Ala Ala Arg Ile Tyr Lys
                245                 250                 255

cac ccc agc atc aag aat tcc atc aac ctg atg gtg gta aaa gtg ctg   816
His Pro Ser Ile Lys Asn Ser Ile Asn Leu Met Val Val Lys Val Leu
            260                 265                 270

atc gta gaa gat gaa aaa tgg ggc cca gag gtg tcc gac aat ggg ggg   864
Ile Val Glu Asp Glu Lys Trp Gly Pro Glu Val Ser Asp Asn Gly Gly
        275                 280                 285

ctt aca ctg cgt aac ttc tgc aac tgg cag cgg cgt ttc aac cag ccc   912
Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Arg Arg Phe Asn Gln Pro
    290                 295                 300

agc gac cgc cac cca gag cac tac gac acg gcc atc ctg ctc acc aga   960
Ser Asp Arg His Pro Glu His Tyr Asp Thr Ala Ile Leu Leu Thr Arg
305                 310                 315                 320

cag aac ttc tgt ggg cag gag ggg ctg tgt gac acc ctg ggt gtg gca  1008
Gln Asn Phe Cys Gly Gln Glu Gly Leu Cys Asp Thr Leu Gly Val Ala
                325                 330                 335
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gac atc ggg acc att tgt gac ccc aac aaa agc tgc tcc gtg atc gag   1056
Asp Ile Gly Thr Ile Cys Asp Pro Asn Lys Ser Cys Ser Val Ile Glu
            340                 345                 350

gat gag ggg ctc cag gcg gcc cac acc ctg gcc cat gaa cta ggg cac   1104
Asp Glu Gly Leu Gln Ala Ala His Thr Leu Ala His Glu Leu Gly His
        355                 360                 365

gtc ctc agc atg ccc cac gac gac tcc aag ccc tgc aca cgg ctc ttc   1152
Val Leu Ser Met Pro His Asp Asp Ser Lys Pro Cys Thr Arg Leu Phe
    370                 375                 380

ggg ccc atg ggc aag cac cac gtg atg gca ccg ctg ttc gtc cac ctg   1200
Gly Pro Met Gly Lys His His Val Met Ala Pro Leu Phe Val His Leu
385                 390                 395                 400

aac cag acg ctg ccc tgg tcc ccc tgc agc gcc atg tat ctc aca gag   1248
Asn Gln Thr Leu Pro Trp Ser Pro Cys Ser Ala Met Tyr Leu Thr Glu
                405                 410                 415

ctt ctg gac ggc ggg cac gga gac tgt ctc ctg gat gcc cct ggt gcg   1296
Leu Leu Asp Gly Gly His Gly Asp Cys Leu Leu Asp Ala Pro Gly Ala
            420                 425                 430

gcc ctg ccc ctc ccc aca ggc ctc ccg ggc cgc atg gcc ctg tac cag   1344
Ala Leu Pro Leu Pro Thr Gly Leu Pro Gly Arg Met Ala Leu Tyr Gln
        435                 440                 445

ctg gac cag cag tgc agg cag atc ttt ggg ccg gat ttc cgc cac tgc   1392
Leu Asp Gln Gln Cys Arg Gln Ile Phe Gly Pro Asp Phe Arg His Cys
    450                 455                 460

ccc aac acc tct gct cag gac gtc tgc gcc cag ctt tgg tgc cac act   1440
Pro Asn Thr Ser Ala Gln Asp Val Cys Ala Gln Leu Trp Cys His Thr
465                 470                 475                 480

gat ggg gct gag ccc ctg tgc cac acg aag aat ggc agc ctg ccc tgg   1488
Asp Gly Ala Glu Pro Leu Cys His Thr Lys Asn Gly Ser Leu Pro Trp
                485                 490                 495

gct gac ggc acg ccg tgc ggg cct ggg cac ctc tgc tca gaa ggc agc   1536
Ala Asp Gly Thr Pro Cys Gly Pro Gly His Leu Cys Ser Glu Gly Ser
            500                 505                 510

tgt cta cct gag gag gaa gtg gag agg ccc aag ccc gtg gta gat gga   1584
Cys Leu Pro Glu Glu Glu Val Glu Arg Pro Lys Pro Val Val Asp Gly
        515                 520                 525

ggc tgg gca ccg tgg gga ccc tgg gga gaa tgt tct cgg acc tgt gga   1632
Gly Trp Ala Pro Trp Gly Pro Trp Gly Glu Cys Ser Arg Thr Cys Gly
    530                 535                 540

gga gga gta cag ttt tca cac cgt gag tgc aag gac ccc gag cct cag   1680
Gly Gly Val Gln Phe Ser His Arg Glu Cys Lys Asp Pro Glu Pro Gln
545                 550                 555                 560

aat gga gga aga tac tgc ctg ggt cgg aga gcc aag tac cag tca tgc   1728
Asn Gly Gly Arg Tyr Cys Leu Gly Arg Arg Ala Lys Tyr Gln Ser Cys
                565                 570                 575

cac acg gag gaa tgc ccc cct gac ggg aaa agc ttc agg gag cag cag   1776
His Thr Glu Glu Cys Pro Pro Asp Gly Lys Ser Phe Arg Glu Gln Gln
```

```
                580                 585                 590

tgt gag aag tat aat gcc tac aat tac act gac atg gac ggg aat ctc   1824
Cys Glu Lys Tyr Asn Ala Tyr Asn Tyr Thr Asp Met Asp Gly Asn Leu
        595                 600                 605

ctg cag tgg gtc ccc aag tat gct ggg gtg tcc ccc cgg gac cgc tgc   1872
Leu Gln Trp Val Pro Lys Tyr Ala Gly Val Ser Pro Arg Asp Arg Cys
    610                 615                 620

aag ttg ttc tgc cga gcc cgg ggg agg agc gag ttc aaa gtg ttc gag   1920
Lys Leu Phe Cys Arg Ala Arg Gly Arg Ser Glu Phe Lys Val Phe Glu
625                 630                 635                 640

gcc aag gtg att gat ggc acc ctg tgt ggg cca gaa aca ctg gcc atc   1968
Ala Lys Val Ile Asp Gly Thr Leu Cys Gly Pro Glu Thr Leu Ala Ile
                645                 650                 655

tgt gtc cgt ggc cag tgt gtc aag gcc ggc tgt gac cat gtg gtg gac   2016
Cys Val Arg Gly Gln Cys Val Lys Ala Gly Cys Asp His Val Val Asp
            660                 665                 670

tcg cct cgg aag ctg gac aaa tgc ggg gtg tgt ggg ggc aaa ggc aac   2064
Ser Pro Arg Lys Leu Asp Lys Cys Gly Val Cys Gly Gly Lys Gly Asn
        675                 680                 685

tcc tgc agg aag gtc tcc ggg tcc ctc acc ccc acc aat tat ggc tac   2112
Ser Cys Arg Lys Val Ser Gly Ser Leu Thr Pro Thr Asn Tyr Gly Tyr
    690                 695                 700

aat gac att gtc acc atc cca gct ggt gcc act aat att gac gtg aag   2160
Asn Asp Ile Val Thr Ile Pro Ala Gly Ala Thr Asn Ile Asp Val Lys
705                 710                 715                 720

cag cgg agc cac ccg ggt gtg cag aac gat ggg aac tac ctg gcg ctg   2208
Gln Arg Ser His Pro Gly Val Gln Asn Asp Gly Asn Tyr Leu Ala Leu
                725                 730                 735

aag acg gct gat ggg cag tac ctg ctc aac ggc aac ctg gcc atc tct   2256
Lys Thr Ala Asp Gly Gln Tyr Leu Leu Asn Gly Asn Leu Ala Ile Ser
            740                 745                 750

gcc ata gag cag gac atc ttg gtg aag ggg acc atc ctg aag tac agc   2304
Ala Ile Glu Gln Asp Ile Leu Val Lys Gly Thr Ile Leu Lys Tyr Ser
        755                 760                 765

ggc tcc atc gcc acc ctg gag cgc ctg cag agc ttc cgg ccc ttg cca   2352
Gly Ser Ile Ala Thr Leu Glu Arg Leu Gln Ser Phe Arg Pro Leu Pro
    770                 775                 780

gag cct ctg aca gtg cag ctc ctg aca gtc cct ggc gag gtc ttc ccc   2400
Glu Pro Leu Thr Val Gln Leu Leu Thr Val Pro Gly Glu Val Phe Pro
785                 790                 795                 800

cca aaa gtc aaa tac acc ttc ttt gtt cct aat gac gtg gac ttt agc   2448
Pro Lys Val Lys Tyr Thr Phe Phe Val Pro Asn Asp Val Asp Phe Ser
                805                 810                 815

atg cag agc agc aaa gag aga gca acc acc aac atc atc cag ccg ctg   2496
Met Gln Ser Ser Lys Glu Arg Ala Thr Thr Asn Ile Ile Gln Pro Leu
            820                 825                 830
```

```
ctc cac gca cag tgg gtg ctg ggg gac tgg tct gag tgc tct agc acc   2544
Leu His Ala Gln Trp Val Leu Gly Asp Trp Ser Glu Cys Ser Ser Thr
        835                 840                 845

tgc ggg gcc ggc tgg cag agg cga act gta gag tgc agg gac ccc tcc   2592
Cys Gly Ala Gly Trp Gln Arg Arg Thr Val Glu Cys Arg Asp Pro Ser
    850                 855                 860

ggc cag gcc tct gcc acc tgc aac aag gct ctg aaa ccc gag gat gcc   2640
Gly Gln Ala Ser Ala Thr Cys Asn Lys Ala Leu Lys Pro Glu Asp Ala
865                 870                 875                 880

aag ccc tgc gaa agc cag ctg tgc ccc ctg tgattcaggg gggcaggggc     2690
Lys Pro Cys Glu Ser Gln Leu Cys Pro Leu
                885                 890

cagtcttgtg ctcctggaca tgcggtactg aggtgcagac aaggtctcca ctgtggtgac 2750

tgggtccctt ggccatatca aggcagcacg gcccacccag gcctcccatt gccgcaaccc 2810

ctccagtact gcacaaattc ctaaggggga agagaaaagg tatggggcgg caaaacctat 2870

catcaactgt ccawtgnaat ggaacttgct cgggttcaat taaaggcata agttaaagta 2930

aattcattat gatcaacaga cctcacntca tctgttgcan gatacaacta ntaaaaaaaa 2990

aaaaaaaaaa aaaaaaaa                                              3008
```

<210> 4
<211> 890
<212> PRT
<213> Homo sapiens

<400> 4

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Met Phe Pro Ala Pro Ala Ala Pro Arg Trp Leu Pro Phe Leu Leu Leu
  1               5                  10                  15

Leu Leu Leu Leu Leu Leu Pro Leu Ala Arg Gly Ala Pro Ala Arg Pro
            20                  25                  30

Ala Ala Gly Gly Gln Ala Ser Glu Leu Val Val Pro Thr Arg Leu Pro
        35                  40                  45

Gly Ser Ala Gly Glu Leu Ala Leu His Leu Ser Ala Phe Gly Lys Gly
    50                  55                  60

Phe Val Leu Arg Leu Ala Pro Asp Asp Ser Phe Leu Ala Pro Glu Phe
65                  70                  75                  80

Lys Ile Glu Arg Leu Gly Gly Ser Gly Arg Ala Thr Gly Gly Glu Arg
                85                  90                  95

Gly Leu Arg Gly Cys Phe Phe Ser Gly Thr Val Asn Gly Glu Pro Glu
            100                 105                 110

Ser Leu Ala Ala Val Ser Leu Cys Arg Gly Leu Ser Gly Ser Phe Leu
        115                 120                 125

Leu Asp Gly Glu Glu Phe Thr Ile Gln Pro Gln Gly Ala Gly Gly Ser
    130                 135                 140
```

```
Leu Ala Gln Pro His Arg Leu Gln Arg Trp Gly Pro Ala Gly Ala Arg
145                 150                 155                 160

Pro Leu Pro Arg Gly Pro Glu Trp Glu Val Glu Thr Gly Glu Gly Gln
                165                 170                 175

Arg Gln Glu Arg Gly Asp His Gln Glu Asp Ser Glu Glu Glu Ser Gln
            180                 185                 190

Glu Glu Glu Ala Glu Gly Ala Ser Glu Pro Pro Pro Pro Leu Gly Ala
        195                 200                 205

Thr Ser Arg Thr Lys Arg Phe Val Ser Glu Ala Arg Phe Val Glu Thr
    210                 215                 220

Leu Leu Val Ala Asp Ala Ser Met Ala Ala Phe Tyr Gly Ala Asp Leu
225                 230                 235                 240

Gln Asn His Ile Leu Thr Leu Met Ser Val Ala Ala Arg Ile Tyr Lys
                245                 250                 255

His Pro Ser Ile Lys Asn Ser Ile Asn Leu Met Val Val Lys Val Leu
            260                 265                 270

Ile Val Glu Asp Glu Lys Trp Gly Pro Glu Val Ser Asp Asn Gly Gly
        275                 280                 285

Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Arg Arg Phe Asn Gln Pro
    290                 295                 300

Ser Asp Arg His Pro Glu His Tyr Asp Thr Ala Ile Leu Leu Thr Arg
305                 310                 315                 320

Gln Asn Phe Cys Gly Gln Glu Gly Leu Cys Asp Thr Leu Gly Val Ala
                325                 330                 335

Asp Ile Gly Thr Ile Cys Asp Pro Asn Lys Ser Cys Ser Val Ile Glu
            340                 345                 350

Asp Glu Gly Leu Gln Ala Ala His Thr Leu Ala His Glu Leu Gly His
        355                 360                 365

Val Leu Ser Met Pro His Asp Asp Ser Lys Pro Cys Thr Arg Leu Phe
    370                 375                 380

Gly Pro Met Gly Lys His His Val Met Ala Pro Leu Phe Val His Leu
385                 390                 395                 400

Asn Gln Thr Leu Pro Trp Ser Pro Cys Ser Ala Met Tyr Leu Thr Glu
                405                 410                 415

Leu Leu Asp Gly Gly His Gly Asp Cys Leu Leu Asp Ala Pro Gly Ala
            420                 425                 430

Ala Leu Pro Leu Pro Thr Gly Leu Pro Gly Arg Met Ala Leu Tyr Gln
        435                 440                 445

Leu Asp Gln Gln Cys Arg Gln Ile Phe Gly Pro Asp Phe Arg His Cys
    450                 455                 460

Pro Asn Thr Ser Ala Gln Asp Val Cys Ala Gln Leu Trp Cys His Thr
465                 470                 475                 480
```

```
Asp Gly Ala Glu Pro Leu Cys His Thr Lys Asn Gly Ser Leu Pro Trp
                485                 490                 495

Ala Asp Gly Thr Pro Cys Gly Pro Gly His Leu Cys Ser Glu Gly Ser
            500                 505                 510

Cys Leu Pro Glu Glu Glu Val Glu Arg Pro Lys Pro Val Val Asp Gly
        515                 520                 525

Gly Trp Ala Pro Trp Gly Pro Trp Gly Glu Cys Ser Arg Thr Cys Gly
    530                 535                 540

Gly Gly Val Gln Phe Ser His Arg Glu Cys Lys Asp Pro Glu Pro Gln
545                 550                 555                 560

Asn Gly Gly Arg Tyr Cys Leu Gly Arg Arg Ala Lys Tyr Gln Ser Cys
                565                 570                 575

His Thr Glu Glu Cys Pro Pro Asp Gly Lys Ser Phe Arg Glu Gln Gln
            580                 585                 590

Cys Glu Lys Tyr Asn Ala Tyr Asn Tyr Thr Asp Met Asp Gly Asn Leu
        595                 600                 605

Leu Gln Trp Val Pro Lys Tyr Ala Gly Val Ser Pro Arg Asp Arg Cys
    610                 615                 620

Lys Leu Phe Cys Arg Ala Arg Gly Arg Ser Glu Phe Lys Val Phe Glu
625                 630                 635                 640

Ala Lys Val Ile Asp Gly Thr Leu Cys Gly Pro Glu Thr Leu Ala Ile
                645                 650                 655

Cys Val Arg Gly Gln Cys Val Lys Ala Gly Cys Asp His Val Val Asp
            660                 665                 670

Ser Pro Arg Lys Leu Asp Lys Cys Gly Val Cys Gly Gly Lys Gly Asn
        675                 680                 685

Ser Cys Arg Lys Val Ser Gly Ser Leu Thr Pro Thr Asn Tyr Gly Tyr
    690                 695                 700

Asn Asp Ile Val Thr Ile Pro Ala Gly Ala Thr Asn Ile Asp Val Lys
705                 710                 715                 720

Gln Arg Ser His Pro Gly Val Gln Asn Asp Gly Asn Tyr Leu Ala Leu
                725                 730                 735

Lys Thr Ala Asp Gly Gln Tyr Leu Leu Asn Gly Asn Leu Ala Ile Ser
            740                 745                 750

Ala Ile Glu Gln Asp Ile Leu Val Lys Gly Thr Ile Leu Lys Tyr Ser
        755                 760                 765

Gly Ser Ile Ala Thr Leu Glu Arg Leu Gln Ser Phe Arg Pro Leu Pro
    770                 775                 780

Glu Pro Leu Thr Val Gln Leu Leu Thr Val Pro Gly Glu Val Phe Pro
785                 790                 795                 800

Pro Lys Val Lys Tyr Thr Phe Phe Val Pro Asn Asp Val Asp Phe Ser
                805                 810                 815
```

```
Met Gln Ser Ser Lys Glu Arg Ala Thr Thr Asn Ile Ile Gln Pro Leu
            820                 825                 830

Leu His Ala Gln Trp Val Leu Gly Asp Trp Ser Glu Cys Ser Ser Thr
        835                 840                 845

Cys Gly Ala Gly Trp Gln Arg Arg Thr Val Glu Cys Arg Asp Pro Ser
    850                 855                 860

Gly Gln Ala Ser Ala Thr Cys Asn Lys Ala Leu Lys Pro Glu Asp Ala
865                 870                 875                 880

Lys Pro Cys Glu Ser Gln Leu Cys Pro Leu
                885                 890
```

<210> 5
<211> 1203
<212> PRT
<213> Bovine

<400> 5

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Met Asp Pro Pro Ala Gly Ala Ala Gly Arg Leu Leu Cys Pro Ala Leu
  1               5                  10                  15

Leu Leu Leu Leu Leu Leu Pro Leu Pro Ala Asp Ala Arg Leu Ala Ala
            20                  25                  30

Ala Ala Ala Asp Pro Pro Gly Gly Pro Gln Gly His Gly Ala Glu Arg
        35                  40                  45

Ile Leu Ala Val Pro Val Arg Thr Asp Ala Gln Gly Arg Leu Val Ser

     50                  55                  60

His Val Val Ser Ala Ala Thr Ala Pro Ala Gly Val Arg Thr Arg Arg
 65                  70                  75                  80

Ala Ala Pro Ala Gln Ile Pro Gly Leu Ser Gly Gly Ser Glu Glu Asp
                85                  90                  95

Pro Gly Gly Arg Leu Phe Tyr Asn Val Thr Val Phe Gly Arg Asp Leu
            100                 105                 110

His Leu Arg Leu Arg Pro Asn Ala Arg Leu Val Ala Pro Gly Ala Thr
        115                 120                 125

Val Glu Trp Gln Gly Glu Ser Gly Ala Thr Arg Val Glu Pro Leu Leu
    130                 135                 140

Gly Thr Cys Leu Tyr Val Gly Asp Val Ala Gly Leu Ala Glu Ser Ser
145                 150                 155                 160

Ser Val Ala Leu Ser Asn Cys Asp Gly Leu Ala Gly Leu Ile Arg Met
                165                 170                 175

Glu Glu Glu Glu Phe Phe Ile Glu Pro Leu Glu Lys Gly Leu Ala Ala
            180                 185                 190

Lys Glu Ala Glu Gln Gly Arg Val His Val Val Tyr His Arg Pro Thr
        195                 200                 205
```

```
Thr Ser Arg Pro Pro Pro Leu Gly Gln Ala Leu Asp Thr Gly Ile Ser
    210                 215                 220

Ala Asp Ser Leu Asp Ser Leu Ser Arg Ala Leu Gly Val Leu Glu Glu
225                 230                 235                 240

Arg Val Asn Ser Ser Arg Arg Arg Met Arg Arg His Ala Ala Asp Asp
                245                 250                 255

Asp Tyr Asn Ile Glu Val Leu Leu Gly Val Asp Asp Ser Val Val Gln
            260                 265                 270

Phe His Gly Thr Glu His Val Gln Lys Tyr Leu Leu Thr Leu Met Asn
        275                 280                 285

Ile Val Asn Glu Ile Tyr His Asp Glu Ser Leu Gly Ala His Ile Asn
    290                 295                 300

Val Val Leu Val Arg Ile Ile Leu Leu Ser Tyr Gly Lys Ser Met Ser
305                 310                 315                 320

Leu Ile Glu Ile Gly Asn Pro Ser Gln Ser Leu Glu Asn Val Cys Arg
                325                 330                 335

Trp Ala Tyr Leu Gln Gln Lys Pro Asp Thr Asp His Asp Glu Tyr His
            340                 345                 350

Asp His Ala Ile Phe Leu Thr Arg Gln Asp Phe Gly Pro Ser Gly Met
        355                 360                 365

Gln Gly Tyr Ala Pro Val Thr Gly Met Cys His Pro Val Arg Ser Cys
    370                 375                 380

Thr Leu Asn His Glu Asp Gly Phe Ser Ser Ala Phe Val Val Ala His
385                 390                 395                 400

Glu Thr Gly His Val Leu Gly Met Glu His Asp Gly Gln Gly Asn Arg
                405                 410                 415

Cys Gly Asp Glu Val Arg Leu Gly Ser Ile Met Ala Pro Leu Val Gln
            420                 425                 430

Ala Ala Phe His Arg Phe His Trp Ser Arg Cys Ser Gln Gln Glu Leu
        435                 440                 445

Ser Arg Tyr Leu His Ser Tyr Asp Cys Leu Arg Asp Asp Pro Phe Thr
    450                 455                 460

His Asp Trp Pro Ala Leu Pro Gln Leu Pro Gly Leu His Tyr Ser Met
465                 470                 475                 480

Asn Glu Gln Cys Arg Phe Asp Phe Gly Leu Gly Tyr Met Met Cys Thr
                485                 490                 495

Ala Phe Arg Thr Phe Asp Pro Cys Lys Gln Leu Trp Cys Ser His Pro
            500                 505                 510

Asp Asn Pro Tyr Phe Cys Lys Thr Lys Lys Gly Pro Pro Leu Asp Gly
        515                 520                 525

Thr Met Cys Ala Pro Gly Lys His Cys Phe Lys Gly His Cys Ile Trp
    530                 535                 540
```

```
Leu Thr Pro Asp Ile Leu Lys Arg Asp Gly Asn Trp Gly Ala Trp Ser
545                 550                 555                 560

Pro Phe Gly Ser Cys Ser Arg Thr Cys Gly Thr Gly Val Lys Phe Arg
                565                 570                 575

Thr Arg Gln Cys Asp Asn Pro His Pro Ala Asn Gly Gly Arg Thr Cys
            580                 585                 590

Ser Gly Leu Ala Tyr Asp Phe Gln Leu Cys Asn Ser Gln Asp Cys Pro
        595                 600                 605

Asp Ala Leu Ala Asp Phe Arg Glu Glu Gln Cys Arg Gln Trp Asp Leu
    610                 615                 620

Tyr Phe Glu His Gly Asp Ala Gln His His Trp Leu Pro His Glu His
625                 630                 635                 640

Arg Asp Ala Lys Glu Arg Cys His Leu Tyr Cys Glu Ser Lys Glu Thr
                645                 650                 655

Gly Glu Val Val Ser Met Lys Arg Met Val His Asp Gly Thr Arg Cys
            660                 665                 670

Ser Tyr Lys Asp Ala Phe Ser Leu Cys Val Arg Gly Asp Cys Arg Lys
        675                 680                 685

Val Gly Cys Asp Gly Val Ile Gly Ser Ser Lys Gln Glu Asp Lys Cys
    690                 695                 700

Gly Val Cys Gly Gly Asp Asn Ser His Cys Lys Val Val Lys Gly Thr
705                 710                 715                 720

Phe Ser Arg Ser Pro Lys Lys Leu Gly Tyr Ile Lys Met Phe Glu Ile
                725                 730                 735

Pro Ala Gly Ala Arg His Leu Leu Ile Gln Glu Ala Asp Thr Thr Ser
            740                 745                 750

His His Leu Ala Val Lys Asn Leu Glu Thr Gly Lys Phe Ile Leu Asn
        755                 760                 765

Glu Glu Asn Asp Val Asp Pro Asn Ser Lys Thr Phe Ile Ala Met Gly
    770                 775                 780

Val Glu Trp Glu Tyr Arg Asp Glu Asp Gly Arg Glu Thr Leu Gln Thr
785                 790                 795                 800

Met Gly Pro Leu His Gly Thr Ile Thr Val Leu Val Ile Pro Glu Gly
                805                 810                 815

Asp Ala Arg Ile Ser Leu Thr Tyr Lys Tyr Met Ile His Glu Asp Ser
            820                 825                 830

Leu Asn Val Asp Asp Asn Asn Val Leu Glu Asp Asp Ser Val Gly Tyr
        835                 840                 845

Glu Trp Ala Leu Lys Lys Trp Ser Pro Cys Ser Lys Pro Cys Gly Gly
    850                 855                 860

Gly Ser Gln Phe Thr Lys Tyr Gly Cys Arg Arg Arg Leu Asp His Lys
865                 870                 875                 880
```

```
Met Val His Arg Gly Phe Cys Asp Ser Val Ser Lys Pro Lys Ala Ile
                885                 890                 895

Arg Arg Thr Cys Asn Pro Gln Glu Cys Ser Gln Pro Val Trp Val Thr
            900                 905                 910

Gly Glu Trp Glu Pro Cys Ser Arg Ser Cys Gly Arg Thr Gly Met Gln
        915                 920                 925

Val Arg Ser Val Arg Cys Val Gln Pro Leu His Asn Asn Thr Thr Arg
    930                 935                 940

Ser Val His Thr Lys His Cys Asn Asp Ala Arg Pro Glu Gly Arg Arg
945                 950                 955                 960

Ala Cys Asn Arg Glu Leu Cys Pro Gly Arg Trp Arg Ala Gly Ser Trp
                965                 970                 975

Ser Gln Cys Ser Val Thr Cys Gly Asn Gly Thr Gln Glu Arg Pro Val
            980                 985                 990

Leu Cys Arg Thr Ala Asp Asp Ser Phe Gly Val Cys Arg Glu Glu Arg
        995                1000                1005

Pro Glu Thr Ala Arg Ile Cys Arg Leu Gly Pro Cys Pro Arg Asn Thr
   1010                1015                1020

Ser Asp Pro Ser Lys Lys Ser Tyr Val Val Gln Trp Leu Ser Arg Pro
1025                1030                1035                1040

Asp Pro Asn Ser Pro Val Gln Glu Thr Ser Ser Lys Gly Arg Cys Gln
                1045                1050                1055

Gly Asp Lys Ser Val Phe Cys Arg Met Glu Val Leu Ser Arg Tyr Cys
            1060                1065                1070

Ser Ile Pro Gly Tyr Asn Lys Leu Cys Cys Lys Ser Cys Asn Pro His
        1075                1080                1085

Asp Asn Leu Thr Asp Val Asp Asp Arg Ala Glu Pro Pro Ser Gly Lys
   1090                1095                1100

His Asn Asp Ile Glu Glu Leu Met Pro Thr Leu Ser Val Pro Thr Leu
1105                1110                1115                1120

Val Met Glu Val Gln Pro Pro Pro Gly Ile Pro Leu Glu Val Pro Leu
                1125                1130                1135

Asn Thr Ser Ser Thr Asn Ala Thr Glu Asp His Pro Glu Thr Asn Ala
            1140                1145                1150

Val Asp Val Pro Tyr Lys Ile Pro Gly Leu Glu Asp Glu Val Gln Pro
        1155                1160                1165

Pro Asn Leu Ile Pro Arg Arg Pro Ser Pro Tyr Glu Lys Thr Arg Asn
   1170                1175                1180

Gln Arg Ile Gln Glu Leu Ile Asp Glu Met Arg Lys Lys Glu Met Leu
1185                1190                1195                1200

Gly Lys Phe
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<210> 6
<211> 50
<212> PRT
<213> Homo sapiens

<400> 6
Asp Asp Gly Trp Ser Pro Trp Ser Glu Trp Thr Ser Cys Ser Thr Ser
1 5 10 15

Cys Gly Asn Gly Ile Gln Gln Arg Gly Arg Ser Cys Asp Ser Leu Asn
20 25 30

Asn Arg Cys Glu Gly Ser Ser Val Gln Thr Arg Thr Cys His Ile Gln
35 40 45

Glu Cys
50

<210> 7
<211> 57
<212> PRT
<213> Homo sapiens

<400> 7
Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys Ser Val Thr
1 5 10 15

Cys Gly Asp Gly Val Ile Thr Arg Ile Arg Leu Cys Asn Ser Pro Ser
20 25 30

Pro Gln Met Asn Gly Lys Pro Cys Glu Gly Glu Ala Arg Glu Thr Lys
35 40 45

Ala Cys Lys Lys Asp Ala Cys Pro Ile
50 55

<210> 8
<211> 57
<212> PRT
<213> Homo sapiens

<400> 8
Asn Gly Gly Trp Gly Pro Trp Ser Pro Trp Asp Ile Cys Ser Val Thr
1 5 10 15

Cys Gly Gly Gly Val Gln Lys Arg Ser Arg Leu Cys Asn Asn Pro Thr
20 25 30

Pro Gln Phe Gly Gly Lys Asp Cys Val Gly Asp Val Thr Glu Asn Gln
35 40 45

Ile Cys Asn Lys Gln Asp Cys Pro Ile
50 55

<210> 9
<211> 50
<212> PRT
<213> Homo sapiens

<400> 9
Glu Glu Gly Trp Ser Pro Trp Ala Glu Trp Thr Gln Cys Ser Val Thr
1 5 10 15

Cys Gly Ser Gly Thr Gln Gln Arg Gly Arg Ser Cys Asp Val Thr Ser
20 25 30

Asn Thr Cys Leu Gly Pro Ser Ile Gln Thr Arg Ala Cys Ser Leu Ser
35 40 45

Lys Cys
50

<210> 10
<211> 57
<212> PRT
<213> Homo sapiens

<400> 10
Asp Gly Gly Trp Ser His Trp Ser Pro Trp Ser Ser Cys Ser Val Thr
1 5 10 15

Cys Gly Val Gly Asn Ile Thr Arg Ile Arg Leu Cys Asn Ser Pro Val
20 25 30

Pro Gln Met Gly Gly Lys Asn Cys Lys Gly Ser Gly Arg Glu Thr Lys
35 40 45

Ala Cys Gln Gly Ala Pro Cys Pro Ile
50 55

<210> 11
<211> 56
<212> PRT
<213> Homo sapiens

<400> 11
Asp Gly Arg Trp Ser Pro Trp Ser Pro Trp Ser Ala Cys Thr Val Thr
1 5 10 15

Cys Ala Gly Gly Ile Arg Glu Arg Thr Arg Val Cys Asn Ser Pro Glu
20 25 30

Pro Gln Tyr Gly Gly Lys Ala Cys Val Gly Asp Val Gln Glu Arg Gln
35 40 45

Met Cys Asn Lys Arg Ser Cys Pro
50 55

<210> 12

<211> 3974

<212> DNA
<213> Homo sapiens

<400> 12
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ggtcatagct gtttcctgtg tgaaattgtt atccgctcac aattccacac aacatacgag 120

ccggaagcat aaagtgtaaa gcctggggtg cctaatgagt gagctaactc acattaattg 180

cgttgcgctc actgcccgct ttccagtcgg gaaacctgtc gtgccagctg cattaatgaa 240

tcggccaacg cgcggggaga ggcggtttgc gtattgggcg ctcttccgct tcctcgctca 300

ctgactcgct gcgctcggtc gttcggctgc ggcgagcggt atcagctcac tcaaaggcgg 360

taatacggtt atccacagaa tcaggggata acgcaggaaa gaacatgtga gcaaaaggcc 420

agcaaaaggc caggaaccgt aaaaaggccg cgttgctggc gtttttccat aggctccgcc 480

cccctgacga gcatcacaaa aatcgacgct caagtcagag gtggcgaaac ccgacaggac 540

tataaagata ccaggcgttt ccccctggaa gctccctcgt gcgctctcct gttccgaccc 600

tgccgcttac cggatacctg tccgcctttc tcccttcggg aagcgtggcg ctttctcata 660

gctcacgctg taggtatctc agttcggtgt aggtcgttcg ctccaagctg ggctgtgtgc 720

acgaaccccc cgttcagccc gaccgctgcg ccttatccgg taactatcgt cttgagtcca 780

acccggtaag acacgactta tcgccactgg cagcagccac tggtaacagg attagcagag 840

cgaggtatgt aggcggtgct acagagttct tgaagtggtg gcctaactac ggctacacta 900

gaagaacagt atttggtatc tgcgctctgc tgaagccagt taccttcgga aaaagagttg 960

gtagctcttg atccggcaaa caaaccaccg ctggtagcgg tggtttttt gtttgcaagc 1020

agcagattac gcgcagaaaa aaaggatctc aagaagatcc tttgatcttt tctacggggt 1080

ctgacgctca gtggaacgaa aactcacgtt aagggatttt ggtcatgaga ttatcgtcga 1140

caattcgcgc gcgaaggcga agcggcatgc atttacgttg acaccatcga atggtgcaaa 1200

acctttcgcg gtatggcatg atagcgcccg gaagagagtc aattcagggt ggtgaatgtg 1260

aaaccagtaa cgttatacga tgtcgcagag tatgccggtg tctcttatca gaccgtttcc 1320

cgcgtggtga accaggccag ccacgtttct gcgaaaacgc gggaaaaagt ggaagcggcg 1380

atggcggagc tgaattacat tcccaaccgc gtggcacaac aactggcggg caaacagtcg 1440

ttgctgattg gcgttgccac ctccagtctg gccctgcacg cgccgtcgca aattgtcgcg 1500

gcgattaaat ctcgcgccga tcaactgggt gccagcgtgg tggtgtcgat ggtagaacga 1560

agcggcgtcg aagcctgtaa agcggcggtg cacaatcttc tcgcgcaacg cgtcagtggg 1620

ctgatcatta actatccgct ggatgaccag gatgccattg ctgtggaagc tgcctgcact 1680

aatgttccgg cgttatttct tgatgtctct gaccagacac ccatcaacag tattattttc 1740

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cataaatatc tcactcgcaa tcaaattcag ccgatagcgg aacgggaagg cgactggagt 1920

gccatgtccg gttttcaaca aaccatgcaa atgctgaatg agggcatcgt tcccactgcg 1980

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cagcaccgtt tctgcggact ggctttctac gtgttccgct tcctttagca gcccttgcgc 3840

cctgagtgct tgcggcagcg tgaagcttaa aaaactgcaa aaaatagttt gacttgtgag 3900

cggataacaa ttaagatgta cccaattgtg agcggataac aatttcacac attaaagagg 3960

agaaattaca tatg 3974

<210> 13
<211> 112
<212> DNA
<213> Homo sapiens

<400> 13
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caattgtgag cggataacaa tttcacacat taaagaggag aaattacata tg 112

<210> 14
<211> 542
<212> DNA
<213> Mus musculus

<220>
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<222> (3)
<223> N is any nucleic acid

<220>
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<222> (21)
<223> N is any nucleic acid

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<222> (520)
<223> N is any nucleic acid

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<222> (535)
<223> N is any nucleic acid

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acaacccagt cccaaagaat ggagggaagt actgtgaagg caaacgagtg cgctacagat 180

cctgtaacct tgaggactgt ccagacaata atggaaaaac ctttagagag gaacaatgtg 240

aagcacacaa cgagttttca aaagcttcct ttgggagtgg gcctgcggtg gaatggattc 300

ccaagtacgc tggcgtctca ccaaaggaca ggtgcaagtt catgttgcca agccaaaggc 360

nttggctant tctttcgttt tgcagcccaa ggttgttagg tgggtantcc atgttaggcc 420

cagattncac ctttgtctgt gtgcaaggac agtgtgttaa aagttggttg tgatccgcnt 480

cntagattcc aaaaggagtt ttgttaatgt ggtgttttcn gggggaatgg tctantttta 540

aa 542

<210> 15
<211> 320
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

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cacagtaaga acctggatgg tcaagggctc tttgagaggg ctaaagctgc gaattctttc 180

caatgccgca gaggagccgc tgtacctcaa gacaacacct ttgtacataa tgtcttgctc 240

taaggtggac aaagtgtagt caccattaag aatatatgtg ccatcagcag ctttgatggc 300

aagaaagctg cccttgttcc 320

<210> 16
<211> 316
<212> DNA
<213> Eimeria tenella

<400> 16
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gcaccagacc ttgtgcagac catccctgcc cccagtggca gctgggggag tggtcatcat 120

gttctaagac ctgtgggaag ggttacaaaa aaagaagctt gaagtgtctg tcccatgatg 180

gaggggtgtt atctcatgag agctgtgatc ctttaaagaa acctaaacat ttcatagact 240

tttgcacaat ggcagaatgc agttaagtgg tttaagtggt gttagctttg agggcaaggc 300

aaagtgagga agggct 316

<210> 17
<211> 383
<212> DNA
<213> Caenorhabditis elegans

<220>
<221> Misc_feature
<222> (160)
<223> N is any nucleic acid

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<222> (326)
<223> N is any nucleic acid

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<222> (358)
<223> N is any nucleic acid

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<222> (366)
<223> N is any nucleic acid

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<222> (377)
<223> N is any nucleic acid

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<221> Misc_feature
<222> (379)
<223> N is any nucleic acid

<400> 17
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aatgtggtgt ttgcggggga aatggatcta cttgtaaaan aatatcagga tcagttacta 180

gtgcaaaacc tgggatatca tgatatcatc acaattccaa ctgggagcca ccaacatcga 240

agtgaaacag cggaaccaga ggggatccag ggaacaatgg gcagctttct tgccatcaaa 300

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acattntgtg acaaagngnt tgt 383

<210> 18
<211> 404
<212> DNA
<213> Crotalus atrox

<220>
<221> Misc_feature
<222> (21)
<223> N is any nucleic acid

<220>
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<222> (301)
<223> N is any nucleic acid

<220>
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<222> (335)
<223> N is any nucleic acid

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tggtttacaa gctgccttca ccacagccca tgaattaggc cacgtgttta acatgccaca 180

tgatggatgc aaagcagtgt gccagcctta aatggtgtga accagggatt cccacatgat 240

ggcgtcaatg ctttccaacc tgggaccaca gccagccttg ggtcctcctt gcagtggcct 300

nacatggatt gacatcattt ctgggatgaa tggtncatgg gggaatgttt tgattggaca 360

agccttcaga atnccctnac annttcccag gggttctccc tggg 404

<210> 19
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (105)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (122)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (135)
<223> N is any nucleic acid

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aacttctgca actggcagcg gcgtttcaac cagcccagcg accgncaccc agagcactac 120

gncacggcca tcctnctcac cagacagaac tt 152

<210> 20
<211> 4180
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 20
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tccttgctca gatcgagtca aatcgggcca aggcggagga cgaagagtcc aggctcctat 120

tctggacttg ttccccagct ccgggggcgc ttctaggtcc tgcagcagcc agcagtgcgg 180

agccaccaac tcggtgctgg aatgaaaaaa ttcccgcgcg ccagtgcaga atctttctaa 240

gtgacccgga gcttcgggtg ctagctctgc acgaactttc ccatcaaagt gatcgtgaat 300

tttaagcatc aggagcaggc cagcgaagct ctacgcgtct aaacgtctat ccagaccaag 360

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agcagaagcc ctgctccgac atgggggacg tccagcgggc agcgagatct cggggctctc 480

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gcgcacacgg gcgccccacg gaggaagatg aggagctggt cctgccctcg ctggagcgcg 600

ccccgggcca cgattccacc accacacgcc ttcgtctgga cgcctttggc cagcagctac 660

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<210> 21
<211> 9248
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 21
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tccttgctca gatcgagtca aatcggggcc aaggcggagg acgaagagtc caggctccta 120

ttctggactt gttccccagc tccgggggcg cttctaggtc ctgcagcagc caggagtgcg 180

gagccaccaa ctcggtgctg gaatgaaaaa attcccgcgc gccagtgcag aatctttcta 240

agtgacccgg agcttcgggt gctagctctg cacgaacttt cccatcaaag tgatcgtgaa 300

ttttaagcat caggagcagg ccagcgaagc tctacgcgtc taaacgtcta tccagaccaa 360

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gcgcacacgg gcgccccacg gaggaagatg aggagctggt cctgccctcg ctggagcgcg 600

ccccgggcca cgattccacc accacacgcc ttcgtctgga cgcctttggc cagcagctac 660

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aaaaaaagtg tgaccatact ctgctagaac acttatttgc ccgaatagtt aataatttga 1320

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ccgttatgtg gaaaccatgc tcgtggctga ccagtccatg gccgacttcc acggcagcgg 2760

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<212> DNA
<213> Unknown

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<223> Description of Unknown Organism: Unknown

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<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

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<211> 820
<212> DNA
<213> Unknown

<220>
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<223> Description of Unknown Organism:Unknown

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<213> Homo sapiens

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agggacccgg agaccttcct gcaggagttg nctttgcccc cacacacccc gcatttgtcc 240

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cagatggnca gtgtttctgg cccacacagg gtgccatcaa tcaccttggn ctcgaacact 360

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ggtgggcatt attcttctca caattgntgc tccctgaagg ttttcccgnc aaggggggat 540

tccccccccng ntggaatnat tggtacttgg gtctccga 578

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<211> 305
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<213> Homo sapiens

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<222> (128)
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<222> (146)
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ctggacangt tgatgatagg gtctgncgcc ccataccctc tcctcttccc ccttaggaat 180

ttgtgcagta ctggaggggt tgcggcaatg ggaggcctgg gtgggccgtg ctgccttgat 240

atggccaagg gacccagtca ccacagtgga gacccttgtc tgcacctcag taccgcatgt 300

ccagg 305

<210> 44
<211> 333
<212> DNA
<213> Homo sapiens

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<222> (82)
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ccggctggca gaggcgaact gtagagtgca gggacccctc cggtgcaggc ctctgccacc 180

tgcaacaagg ctctggaaac ccgaggatgc caagccctgg cagaaccagc tgtgcccccc 240

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agacaaggtc ttncattgtg gtgnatgggt tcc 333

<210> 45
<211> 102
<212> DNA
<213> Unknown

<220>
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<222> (64)
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<210> 46
<211> 123
<212> DNA
<213> Unknown

<220>
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cgn 123

<210> 47
<211> 109
<212> DNA
<213> Unknown

<220>
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agagagcagc agagcagagc agagcanagt agagnagagc anagcnnac 109

<210> 48
<211> 293
<212> DNA
<213> Homo sapiens

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gccgnagctg aggagaacga cttgggttng cctncccana aaatgggaag gganttgggg 240

ttaatcgaag tcattgggac cattttaaaa ggggcttcct ggattatagn ctt 293

<210> 49
<211> 506
<212> DNA
<213> Homo sapiens

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cttctacctc ctttgagccc atcaaggcag accccacagg tgttttggaa ctccccaaag 180

agctgtcaga aatctttgat cccacacgag agtgcatgag ctcggagctg ctggaggagt 240

tgatgtcctc agaagtgttt gcccctctgc tttcgtcttt ctncaccccc gggagaccac 300

gattatatct acaacctgga cgagagtgaa ggtgtttgtg anctcttttg atgtgnctgt 360

tntnaacntt tgactgacag ggacatgcct tttttggttg ggacccagat tttttgactt 420

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<210> 50
<211> 419
<212> DNA
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ggggtggtgg ttatgancag cagtctgtca cagctcagcg aggtgaagcc tgtgggcgtt 180

ttgctctgtg ctgaatggct cagtggccct acaaagcgga ntcagctctt ggtggctttc 240

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gaactcactt cctcttcctc ctgctgncac ctgtcttttg gcttgtggga ttggagtcat 360

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<210> 51
<211> 495
<212> DNA
<213> Saccharomyces cerevisiae

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<222> (322)
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<221> Misc_feature
<222> (404)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (423)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (426)

<223> N is any nucleic acid

<220>
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<222> (436)
<223> N is any nucleic acid

<220>
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<222> (443)
<223> N is any nucleic acid

<220>
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<222> (456)
<223> N is any nucleic acid

<220>
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<222> (460)
<223> N is any nucleic acid

<220>
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<222> (467)
<223> N is any nucleic acid

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<222> (468)
<223> N is any nucleic acid

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<222> (471)
<223> N is any nucleic acid

<220>
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<222> (474)
<223> N is any nucleic acid

<400> 51
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tccatctggg ggacacagtg gactctgatc agttcaagcg ggaggaggat ttctactaca 120

cagaggtgca gctgaaggag gaatctgctg ctgctgctgc tgctgctgcc gcagacnccc 180

agtccctggg actcccacct ccgagccagc tcccaccccc agcatgactg gcctgcctct 240

gtctgctctt ccaccacctc ttgcacaaag cccagtcctc cggcccagaa catcctgggc 300

ccggagttcc ttccttgcct tnaggggntt ttcagcaagt tnagttcctt gggtcctttt 360

tgggaaantt naggnagttn aaggantacc aggttnttgc catnctttcc agatccaagt 420

ttnacnaaaa attttnaaca gtntaaattg ggtttnttgn ccctttnngg nggntgtttt 480

ttttttcggg tccgg 495

<210> 52
<211> 81
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (65)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (67)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (71)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (75)
<223> N is any nucleic acid

<400> 52
ggcacgcagg agcagagcag cagcagcaga gagagcagca gcagcagcag cagcagcaga 60

gagananata natanatata t 81

<210> 53
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (11)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (62)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (81)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (256)
<223> N is any nucleic acid

<220>

<221> Misc_feature
<222> (289)
<223> N is any nucleic acid

<400> 53
aggcacttga nttgaaaatg gaaaacccta ctgctggtgg tgctgcggtg atgaggccta 60

tnatgcagcc ccagggtttt nttaatgctc aaatggtcgc ccaacgcagc agagagctgc 120

taagtcatca cttccgacaa cagagggtgg ctataatgat gcagcagcag cagcagcagc 180

aacagcagca gcagcagcag cagcagcagc aacagcaaca gcaacagcaa cagcagcaac 240

agcagcaaac ccaggncttc agcccacctc ctaatgtgac tgcttcccnc agcatggatg 300

ggctt 305

<210> 54
<211> 307
<212> DNA
<213> Hepatitis C virus

<220>
<221> Misc_feature
<222> (212)
<223> N is any nucleic acid

<400> 54
tggggtgtga agctccggtg ctggtgcggc gggggactgc ggggccagcc tcagtttaaa 60

ccccctcagc agtctttctg tcgttgccct ccacactgcg agactctgga gggcgatctg 120

gaggtctgga agataaccga ttcctgggag atttgggggt agtctccaat ctgtccctgg 180

ctcatcttgt gacccgaagc cggcggcctt gncaggagta ttctagaatg agtgcacata 240

aaaatacctt caaacggtag cagcagcagc agcagcagca gcagcaagca gcagcagcag 300

cagcagc 307

<210> 55
<211> 88
<212> DNA
<213> Unknown

<220>
<221> Misc_feature
<222> (6)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (7)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (78)

<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (83)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (87)
<223> N is any nucleic acid

<220>
<223> Description of Unknown Organism:Unknown

<400> 55
ggacanngac tactctctct ctctctctct ctctctctgc tgctgctgct gtgctgctgc 60

tgctgctgct gctgccgntg tgngcana 88

<210> 56
<211> 346
<212> DNA
<213> Unknown

<220>
<221> Misc_feature
<222> (278)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (288)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (299)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (313)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (342)
<223> N is any nucleic acid

<220>
<223> Description of Unknown Organism:Unknown

<400> 56
ggcacagccc aactggtgat gctgctgctg ctgctgctgc tgccgccgcc gcctctattg 60

ctgatactct agtggggctg gaagggtggt tcctattcgc accatcgcca accagagaca 120

gagggaaaaa aaaaaccggc agccactgct gaatgttggg ttcggaggct gcatccgact 180

cggtcacaag gaaaatggat tcagtttgca tctctccctc ctttaaacag cttctccggg 240

tctcagcatg ggcttccagg gcagcgattg aggagacntt accaaggngc accacacant 300

agatgctgag acntcgtgac tccaggataa gaaacattaa cngggg 346

<210> 57
<211> 496
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (11)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (78)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (195)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (197)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (286)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (291)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (293)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (315)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (328)
<223> N is any nucleic acid

<220>

<221> Misc_feature
<222> (329)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (344)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (346)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (352)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (354)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (358)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (366)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (399)
<223> N is any nucleic acid

<220>
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<222> (406)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (410)
<223> N is any nucleic acid

<220>
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<222> (418)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (420)
<223> N is any nucleic acid

<220>
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<222> (435)

<223> N is any nucleic acid

<220>
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<222> (453)
<223> N is any nucleic acid

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<223> N is any nucleic acid

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<222> (459)
<223> N is any nucleic acid

<220>
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<222> (471)
<223> N is any nucleic acid

<220>
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<222> (473)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (474)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (481)
<223> N is any nucleic acid

<400> 57
gaattcggca naggtgcaca gatgtggtgg atggggaggg ccgcacggga cagaagttct 60

ccctgtgtat tctgacgnct gagaaaggag catttcatcc gggcggagac caaggagatc 120

gtcaatgggt ggctggagat gctcatggtc tatccccgga ccaacaagca gaatcagaag 180

aagaaacgga aagtngnagc cccccacacc acaggagcct gggactgcca agttgggctg 240

ttaccagcag cagcagcagc agcagcagca gcagcagcat ccccantgct ntnggaaagt 300

tcccaccacc aagtnccaca atttgggnna aaaccaaggt tgtngnagac gngntttngg 360

gatttnggca ttgtgggttg cttgcatgga aggacattng gttgtnggtn ccttggangn 420

tacaattacc atttncggtt gtnaaggtta aannteegnc attcagaagg ntnnaaggtg 480

ntttgaagtc catttg 496

<210> 58
<211> 268
<212> DNA
<213> Drosophila sp.

<220>
<221> Misc_feature
<222> (16)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (51)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (60)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (202)
<223> N is any nucleic acid

<400> 58
aacacttatc cttganagct ctgtttggga agcaggacaa agctacatgt naggaaactn 60

tggagcctcc gcagactctc caccagcagc agcagcagca gcagcagcag caagagaagc 120

ttccaattag gcaggggttt gtacgctccc tgtcctatga ggaacccaga agacactcac 180

cccccattga gaagcagctc tntccagcca ttcagaaact catggtcagg agcgcagacc 240

tccacccatt gtcagagctg cctgaaaa 268

<210> 59
<211> 471
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (249)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (386)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (449)
<223> N is any nucleic acid

<400> 59
tcgacccacg cgtccgctga ggaacagacg ttccctggcg gccctggcgc cttcaaaccc 60

agacatgctg ctgctgctgc tgctgctgcc cctgctctgg gggacaaagg ggatggaggg 120

agacagacaa tatggggatg gttacttgct gcaagtgcag gagctggtga cggtgcagga 180

gggcctgtgt gtccatgtgc cctgctcctt ctcctacccc caggatggct ggactgactc 240

tgacccagnt catggctact ggttccgggc aggagacaga ccataccaag acgctccagt 300

ggccacaaac aacccagaca gagaagtgca ggcagagacc cagggccgat tccaactcct 360

tggggacatt tggagcaacg actgcnccct gagcatcaga gacgccagga agagggataa 420

ggggtcatat ttctttcggc tagagagang aagcatgaaa tggagttaca a 471

<210> 60
<211> 379
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (2)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (14)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (31)
<223> N is any nucleic acid

<220>
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<222> (135)
<223> N is any nucleic acid

<220>
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<222> (315)
<223> N is any nucleic acid

<220>
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<222> (332)
<223> N is any nucleic acid

<220>
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<222> (349)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (357)

<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (374)
<223> N is any nucleic acid

<400> 60
anttcggcan aggnaaggga gagggtgacc ngcatcccaa ctagatttca gtggagtgaa 60

gttcaggagg catggagctg acaaccatga ggcctcggca gccaccgcca ccaccgccgc 120

cgccaccacc gtagncagca gcagcagcag cagcagcagc aagagttaac tctgacttag 180

ggaatagaga cagccagaga gaaatgtgat caatgaagga gacatctgga gtgtgcgtgc 240

ttcttcagag gggacgggtg atgggcagat ttggaaaaag caccgcagat tgggaacctt 300

atcttttctt tttcntaaaa ttgttgttat gnaaatttgg gtttttccng taacttntta 360

aaaacttaaa agtnggttt 379

<210> 61
<211> 255
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (121)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (183)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (254)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (255)
<223> N is any nucleic acid

<400> 61
aattccgaca atggaaagca ctcttagcct tgcagtggtc tacattttta aggaaccaat 60

atttcagcat tctttattac ccggcacgct gtgtcctttg tcagagttca agtttatggt 120

nactgccagg gtcagacagt ccatttgctg ctgctgctgc tgctgctgct ttctcgaact 180

ggnatggcat tagggaagct gctgtctgag tgttagggaa tgtcttggct aagtaaagcc 240

aatgttcttt cctnn 255

<210> 62
<211> 5289
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 62
cgagctctcc cagccgcagc ctccgaatcc acggcctcca ccccgcgcct ctccagcgct 60

ctatcccgtc gctgcgccct tgtcgccggc cccggccgct gcatccgcgt ccgcacaggc 120

tccttgctgg gcacaaatag ctccaccatg gggctggcct ggggactcgg tgtcctgctc 180

ctgttgcatg cctgcggctc caaccgcatt ccagagtctg ggggagacaa cagtgtgttt 240

gacatctttg aactcaccgg agctgcccgc aagcggtctg ggcgccgact ggtgaagggc 300

cctgaccctt ctagcccagc tttccgcatc gaggatgcca acctgatccc ccctgtgcct 360

gacaagaagt tccaagacct agtggatgct gtgcgggcgg agaaaggttt cctcctcctg 420

gcctccctga ggcaaatgaa gaagacccgg ggtaccctgc tggctgtgga gcggaaagac 480

cactctggcc aggtcttcag cgtgatctcc aatggcaagg cgggcaccct ggacctgagc 540

ctgaccgtgc aggggaagca gcatgtggtg tcggtggaag aagcactcct ggcgactggc 600

cagtggaaga gcatcaccct gtttgtgcag gaggacaggg cccagctgta catcgactgt 660

gagaagatgg agaatgcgga gctggatgtc cccatccaga gcatcttcac cagggacctg 720

gccagcatcg ccaggctccg cattgccaaa ggaggtgtca acgacaattt ccaggggtg 780

ctgcagaatg taaggtttgt ctttggaacc acaccagaag acatcctcag gaacaaaggc 840

tgctccagct ctaccagtgt ctttgtcacc cttgacaaca acgtggtgaa tgggtccagc 900

cctgccatcc gcaccgacta cattggccac aagacaaagg acctgcaagc catctgtggc 960

atctcatgtg acgagctgtc cagcatggtc ctggagctca ggggtctacg caccatcgtg 1020

accacgctgc aggacagtat ccgcaaagtg accgaagaga acaaagagct ggccaacgag 1080

ctgaggaggc ccccactctg ctaccacaac ggagtgcagt acaggactgg cgacgagtgg 1140

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tcctgtccca tcatgccctg ctccaatgcc acagttccgg atggagaatg ctgcccacgg 1260

tgctggccca gcgactctgc agacgatggc tggtccccgt ggtctgagtg gacctcttgc 1320

tctgtgacct gtggcaatgg aatccagcag cgtggccgct cctgcgacag cctcaacaac 1380

agatgcgagg gctcctctgt gcagacgcgg acctgccaca tccaggagtg tgacaagaga 1440

tttaaacagg atggcggctg gagccactgg tccccatggt catcttgctc cgtaacatgt 1500

ggagacggtg tgatcacaag gatccggctc tgcaactccc ccagccccca gatgaatggg 1560

aagccatgtg agggcaaagc ccgggagacc aaagcctgcc agaaagactc ctgccccatc 1620

aatggaggct ggggaccttg gtcaccatgg gacatctgtt ctgtcacctg tggaggaggg 1680

gtacagaaac gtagccggct ctgcaacaac cccaaacccc agtttggagg caaggactgc 1740

gttggtgatg tgacagaaaa ccagatctgc aacaagcagg actgtcccat tgacggatgc 1800

ctgtccaatc cctgctttgc tggtgtccag tgtaccagct accctgatgg cagctggaag 1860

tgtggtgcct gtcccccagg ctatagtgga gatggagtcg agtgcaaaga cgttgatgag 1920

tgcaaagaag tccctgatgc ctgcttcaac cacaatggag agcacaggtg tgagaacaca 1980

gaccccggct acaactgcct gccctgccca ccgcgcttca ctggctcgca gccctttggc 2040

cggggcgtgg aacatgccac cgccaacaag caggtatgca agccccgaaa cccctgcaca 2100

gacgggacac acgactgcaa caagaacgcc aagtgcaact acctgggcca ctacagcgac 2160

cccatgtacc gctgcgagtg caagcctggc tacgccggca acggcatcat ctgcggggag 2220

gacacagacc tggacggctg gcccaatgag gacctgctgt gcgtggccaa cgcaacttac 2280

cactgcagaa aggataattg ccccaacctt cccaactcag ggcaggaaga ctatgacaag 2340

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gacaactgtc cattccatta caacccagcc cagtacgact atgacagaga tgacgtggga 2460

gaccgctgtg acaactgccc ctacaaccac aacccagacc aggctgacac agataacaat 2520

ggggaaggag acgcctgtgc agctgacatt gatggggaca gtatcctcaa tgaacgggac 2580

aactgccagt atgtctacaa tgtggaccag aaagacactg acatggacgg ggttggtgat 2640

cagtgtgaca actgcccccc ggaacacaat ccagaccagc tcgactctga ctcggaccgc 2700

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gatgattttg accaggacaa ggtgccagac attgatgaca tctgtcccga aaatgttgat 3000

atcagtgaga ctgatttccg ccgattccag atgattcctc tagatcccaa agggacatcc 3060

cagaatgacc ctaactgggt tgtacgccat cagggtaaag aactcgtcca gactgtcaac 3120

tgtgaccctg gacttgctgt aggttatgac gaatttaacg ccgtggactt cagtggcacc 3180

ttcttcatca acaccgagag ggatgacgac tatgccggct ttgtgtttgg ctaccagtcc 3240

agcagccgct tctatgttgt gatgtggaag caagtcactc agtcctactg ggacaccaac 3300

cccacgaggg ctcaggggta ctctggactt tccgtgaagg ttgtaaactc caccacgggg 3360

cctggcgagc acctgcggaa tgccctgtgg cacacaggaa acacctctgg ccaggtgcgc 3420

acactgtggc atgaccctcg tcacattggc tggaaagatt tcactgccta cagatggcat 3480

ctgagccaca ggccaaagac aggtttcatc agagtggtaa tgtatgaagg gaagaaaatc 3540

atggctgact caggacccat ctatgacaaa acctatgctg gtgggaggct aggcttgttc 3600

gtcttctctc aagaaatggt gttcttctcc gacctgaaat atgaatgcag agactcctaa 3660

tcatcaaact gttgatcaaa agactgatca taaaccaatg ctggtattgc accttctgga 3720

accatgggct tagaaaaccc ccaggatcgc gcctcgctgc ctgcctttgc tctctgcttg 3780

catgagtgtg gactcctaga acatgtgact tgcctcaaga aaatgcaatt ttccaaatca 3840

gaccctgcat tcagcctctg actgagaaga atcttccaag gagacaaaca atgactttgg 3900

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cccaagagat gattgtatga agaaaatatg gaggaactgt tacatttttg gtactaaatc 4200

attttcaggg gattgaaaga ctattgctgg atttcatgat gctgaccggt gttagctgat 4260

taacccacat aaataggcac ttaaatagga gcagggaagg aaggaaaaga ctggcttctg 4320

gacttcctcc cagatttcca ccccttaaca catcacctgt agtgaccaga acagggagtc 4380

ggagttaaac cgacacaagg cagggccagc tgctgcagct tggttctatt gaaattgtca 4440

gttgtattcc agatgtagct tctgcagatg tagcagcaaa ataagaatac ccaccatctc 4500

agcgagcacc aggctgtctc ccaagggacg gcagccatgc ttgtattttt atggttagaa 4560

aggcacaaaa ttatcaacta agacattcct tctttctctt tttttcctga acatcatgga 4620

gttttccagt tgtctctttt ggactgtagt ttttagtgtt ttaaacaaac actttacaat 4680

gtaaactatt tatttttac ttattctggg ggatctgtct gaaagactat tcatggaaca 4740

ggaagaagcg taaggactat ccatatcatc tttgctacaa gtcattatga ctgtaagatt 4800

gtaaatacag attatttatt aactctgttc tacctggaat ctagtttcat atggaaagtg 4860

tttgagagca ggtagttgag atcgatcagc aaatctttca caggaatggc acaaggaaac 4920

cagcatagca agctgctctt caccttgtgc ttagactgga tgatttggaa ttctttttc 4980

ctttttttc ccaagtggaa ttacttggtt gtccatttgc aagtgttttt agtttgcaaa 5040

gaaagccaag aggccattaa tactgtctta tcccatccct tgtgcctatt tccagggaga 5100

tgaaaagcat ctacatttat tatttttgcc tttttccaaa agaaaaaaat gacaaaggtg 5160

aaacttgtat acaaatatta cctcatttgt tgtgtgactg agtaaagaat tttgggatca 5220

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<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

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<211> 4339
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

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gccggatgac aagttccaag acctactgga cgctgtgtgg gccgacaaag gcttcatctt 480

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agacaacact ggccagatct tcagtgtggt ctccaacggc aaagctggca ccctggacct 600

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<211> 186
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

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<210> 66
<211> 5774
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

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<211> 5535
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

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tagcctgggg gggagcgtgt gggaggaacg gcgggggagg ggaggcgggg ggtgtcgttt 8100

gcagccgagc gcacgtggtg ctttgcccca ttccatgcca gcagggtgac acacctgacc 8160

atgctggtgt gctgctaggt ggttcacacc tacgtgtgaa tttgtgctgg cgtgcgcaca 8220

ccttactgtg gccatgtgaa cggcatcctc atgtcctcgt gattgcgccc ggcacattgc 8280

ccacaacccc gcaccaccca gctcctcaat ccagtgcaag gaaaggaaat gcacgcccgc 8340

cgcaccaaca acacgacgca tgtgtttgcc acgtgcgcgc acacacgcgc aggtgtggga 8400

cttcaaccgc agcgccgaga tgcgcgacac ggagggcggc accagcaagc gctcggtgct 8460

ggagcaggtg cagaagatgc gcacctacct ggcggcggag ggacagcact gagcgggtcg 8520

ggggaggggg ggcgggtgtg tatgtgtgtg tgtgtgcgtg tgtaagtctc ggtggagggg 8580

tggtcctcta tatggcggcg gggccacagg gggacgggtg tgacagagtt acggccggag 8640

ccagcggagt cccgggatgg attaaggatc 8670

<210> 70
<211> 745

<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 70
atgagatggc gacgcgcccc gcgccgctcc gggcgtcccg gcccccgggc ccagcgcccc 60

ggctccgccg cccgctcgtc gccgccgctg ccgctgctgc cactactgct gctgctgggg 120

accgcggccc tggcgccggg ggcggcggcc ggcaacgagg cggctcccgc gggggcctcg 180

gtgtgctact cgtccccgcc cagcgtggga tcggtgcagg agctagctca gcgcgccgcg 240

gtggtgatcg agggaaaggt gcacccgcag cggcggcagc agggggcact cgacaggaag 300

gcggcggcgg cggcgggcga ggcaggggcg tggggcggcg atcgcgagcc gccagccgcg 360

ggcccacggg cgctggggcc gcccgccgag gagccgctgc tcgccgccaa cgggaccgtg 420

ccctcttggc ccaccgcccc ggtgcccagc gccggcgagc ccggggagga ggcgccctat 480

ctggtgaagg tgcaccaggt gtgggcggtg aaagccgggg gcttgaagaa ggactcgctg 540

ctcaccgtgc gcctggggac ctggggccac cccgccttcc cctcctgcgg gaggctcaag 600

gaggacagca ggtacatctt cttcatggag cccgacgcca acagcaccag ccgcgcgccg 660

gccgccttcc gagcctcttt ccccccctctg gagacgggcc ggaacctcaa gaaggaggtc 720

agccgggtgc tgtgcaagcg gtgcg 745

<210> 71
<211> 1986
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 71
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ctgtggttcc atccacttct tccccctcct cctcccataa acaactctcc tacccctgca 120

cccccaataa ataaataaaa ggaggagggc aaggggggag gaggaggagt ggtgctgcga 180

ggggaaggaa aagggaggca gcgcgagaag agccgggcag agtccgaacc gacagccaga 240

agcccgcacg cacctcgcac catgagatgg cgacgcgccc cgcgccgctc cgggcgtccc 300

ggcccccggg cccagcgccc cggctccgcc gcccgctcgt cgccgccgct gccgctgctg 360

ccactactgc tgctgctggg gaccgcggcc ctggcgccgg gggcggcggc cggcaacgag 420

gcggctcccg cgggggcctc ggtgtgctac tcgtccccgc ccagcgtggg atcggtgcag 480

gagctagctc agcgcgccgc ggtggtgatc gagggaaagg tgcacccgca gcggcggcag 540

caggggcac tcgacaggaa ggcggcggcg gcggcgggcg aggcaggggc gtggggcggc 600

gatcgcgagc cgccagccgc gggcccacgg gcgctggggc cgcccgccga ggagccgctg 660

ctcgccgcca acgggaccgt gccctcttgg cccaccgccc cggtgcccag cgccggcgag 720

cccggggagg aggcgcccta tctggtgaag gtgcaccagg tgtgggcggt gaaagccggg 780

ggcttgaaga aggactcgct gctcaccgtg cgcctgggga cctggggcca ccccgccttc 840

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aacagcacca gccgcgcgcc ggccgccttc cgagcctctt tccccctct ggagacgggc 960

cggaacctca agaaggaggt cagccgggtg ctgtgcaagc ggtgcgcctt gcctccccaa 1020

ttgaaagaga tgaaaagcca ggaatcggct gcaggttcca aactagtcct tcggtgtgaa 1080

accagttctg aatactcctc tctcagattc aagtggttca agaatgggaa tgaattgaat 1140

cgaaaaaaca aaccacaaaa tatcaagata caaaaaaagc cagggaagtc agaacttcgc 1200

attaacaaag catcactggc tgattctgga gagtatatgt gcaaagtgat cagcaaatta 1260

ggaaatgaca gtgcctctgc caatatcacc atcgtggaat caaacgctac atctacatcc 1320

accactggga caagccatct tgtaaaatgt gcggagaagg agaaaacttt ctgtgtgaat 1380

ggaggggagt gcttcatggt gaaagacctt tcaaacccct cgagatactt gtgcaagtgc 1440

ccaaatgagt ttactggtga tcgctgccaa aactacgtaa tggccagctt ctacagtacg 1500

tccactccct ttctgtctct gcctgaatag gagcatgctc agttggtgct gctttcttgt 1560

tgctgcatct cccctcagat tccacctaga gctagatgtg tcttaccaga tctaatattg 1620

actgcctctg cctgtcgcat gagaacatta acaaaagcaa ttgtattact tcctctgttc 1680

gcgactagtt ggctctgaga tactaatagg tgtgtgaggc tccggatgtt tctggaattg 1740

atattgaatg atgtgataca aattgatagt caatatcaag cagtgaaata tgataataaa 1800

ggcatttcaa agtctcactt ttattgataa aataaaaatc attctactga acagtccatc 1860

ttctttatac aatgaccaca tcctgaaaag ggtgttgcta agctgtaacc gatatgcact 1920

tgaaatgatg gtaagttaat tttgattcag aatgtgttat ttgtcacaaa taaacataat 1980

aaaagg 1986

<210> 72
<211> 2003
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature

<222> (31)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (32)
<223> N is any nucleic acid

<400> 72
ggaattcctt ttttttttt ttttttttt nnttttttt tgcccttata cctcttcgcc 60

tttctgtggt tccatccact tcttcccct cctcctccca taaacaactc tcctaccct 120

gcacccccaa taaataaata aaaggaggag ggcaaggggg gaggaggagg agtggtgctg 180

cgaggggaag gaaaagggag gcagcgcgag aagagccggg cagagtccga accgacagcc 240

agaagcccgc acgcacctcg caccatgaga tggcgacgcg ccccgcgccg ctccgggcgt 300

cccggccccc gggcccagcg ccccggctcc gccgcccgct cgtcgccgcc gctgccgctg 360

ctgccactac tgctgctgct ggggaccgcg gccctggcgc cgggggcggc ggccggcaac 420

gaggcggctc ccgcgggggc ctcggtgtgc tactcgtccc cgcccagcgt gggatcggtg 480

caggagctag ctcagcgcgc cgcggtggtg atcgagggaa aggtgcaccc gcagcggcgg 540

cagcaggggg cactcgacag gaaggcggcg gcggcggcgg gcgaggcagg ggcgtggggc 600

ggcgatcgcg agccgccagc cgcgggccca cgggcgctgg ggccgcccgc cgaggagccg 660

ctgctcgccg ccaacgggac cgtgccctct tggcccaccg ccccggtgcc cagcgccggc 720

gagcccgggg aggaggcgcc ctatctggtg aaggtgcacc aggtgtgggc ggtgaaagcc 780

gggggcttga agaaggactc gctgctcacc gtgcgcctgg ggacctgggg ccaccccgcc 840

ttcccctcct gcgggaggct caaggaggac agcaggtaca tcttcttcat ggagcccgac 900

gccaacagca ccagccgcgc gccggccgcc ttccgagcct ctttcccccc tctggagacg 960

ggccggaacc tcaagaagga ggtcagccgg gtgctgtgca agcggtgcgc cttgcctccc 1020

caattgaaag agatgaaaag ccaggaatcg gctgcaggtt ccaaactagt ccttcggtgt 1080

gaaaccagtt ctgaatactc ctctctcaga ttcaagtggt tcaagaatgg gaatgaattg 1140

aatcgaaaaa acaaaccaca aaatatcaag atacaaaaaa agccagggaa gtcagaactt 1200

cgcattaaca aagcatcact ggctgattct ggagagtata tgtgcaaagt gatcagcaaa 1260

ttaggaaatg acagtgcctc tgccaatatc accatcgtgg aatcaaacgc tacatctaca 1320

tccaccactg ggacaagcca tcttgtaaaa tgtgcggaga aggagaaaac tttctgtgtg 1380

aatggagggg agtgcttcat ggtgaaagac ctttcaaacc cctcgagata cttgtgcaag 1440

tgcccaaatg agtttactgg tgatcgctgc caaaactacg taatggccag cttctacagt 1500

acgtccactc cctttctgtc tctgcctgaa taggagcatg ctcagttggt gctgctttct 1560

tgttgctgca tctcccctca gattccacct agagctagat gtgtcttacc agatctaata 1620

ttgactgcct ctgcctgtcg catgagaaca ttaacaaaag caattgtatt acttcctctg 1680

ttcgcgacta gttggctctg agatactaat aggtgtgtga ggctccggat gtttctggaa 1740

ttgatattga atgatgtgat acaaattgat agtcaatatc aagcagtgaa atatgataat 1800

aaaggcattt caaagtctca cttttattga taaaataaaa atcattctac tgaacagtcc 1860

atcttcttta tacaatgacc acatcctgaa aagggtgttg ctaagctgta accgatatgc 1920

acttgaaatg atggtaagtt aattttgatt cagaatgtgt tatttgtcac aaataaacat 1980

aataaaagga aaaaaaaaaa aaa 2003

<210> 73
<211> 957
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (809)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (810)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (811)
<223> N is any nucleic acid

<400> 73
tctcgcccca acttttccc ccgcgctccg cagcagcagc agcagcagca gcagcagcag 60

caaaatggca gacctcttca gcggactcgt gggcggcgtc gtcggcgctg ttgctgcagc 120

agatttgcct gcggagggcg agagggcccc ccgccccgcc cccggcactg cctggacttg 180

ctgctgcagc aaactgcaag aaggggcccg cgagctggag ggttttgtgc agcagctgag 240

ttttgttgca gggaagctgg cctgctgcct gcgggtgggg gcggagcagc tggcgcgctg 300

cgctgcggag gggcggctgc ccagcagcag cagcagcagc agctgctgcg cgctgctgca 360

gctcgagaag caggacctcg agcagagcct cgaggccggc aagcagggcg cggagtgcct 420

cttgaggagc agcaaactgg ccctcgaggc cctcctcgag ggggcccgcg ttgcagcaac 480

gcggggtttg ctgctggtcg agagcagcaa agacacggtg ctgcgcagca ttccccacac 540

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ggggaggtct ctgggctacg gggcccctgc tgctgcttac ggccagcagc agcagcccag 660

cagctacggg gcgccccccg cctccagcca gcagccctcc ggcttcttct ggtagccctg 720

cagcagcagc agcagcagca gcagcagcag cagcgcgggc ggcagccgcg gcggggccgg 780

ggcgccgctg cagcaacagc agcagccgnn ncggctagcg ccgcggagca ctcgcaggga 840

actccacagg cagcgggaga gcagcaggga cgagaagcag gtcatgtagc gcaggcagca 900

gcgccagctg cagcagcagc agcagcagca gcagcagcag cagcagctcc tgcaccg 957

<210> 74
<211> 957
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (809)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (810)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (811)
<223> N is any nucleic acid

<400> 74
tctcgcccca acttttccc ccgcgctccg cagcagcagc agcagcagca gcagcagcag 60

caaaatggca gacctcttca gcggactcgt gggcggcgtc gtcggcgctg ttgctgcagc 120

agatttgcct gcggagggcg agagggcccc ccgccccgcc cccggcactg cctggacttg 180

ctgctgcagc aaactgcaag aaggggcccg cgagctggag ggttttgtgc agcagctgag 240

ttttgttgca gggaagctgg cctgctgcct gcgggtgggg gcggagcagc tggcgcgctg 300

cgctgcggag gggcggctgc ccagcagcag cagcagcagc agctgctgcg cgctgctgca 360

gctcgagaag caggacctcg agcagagcct cgaggccggc aagcagggcg cggagtgcct 420

cttgaggagc agcaaactgg ccctcgaggc cctcctcgag ggggcccgcg ttgcagcaac 480

gcggggtttg ctgctggtcg agagcagcaa agacacggtg ctgcgcagca ttccccacac 540

ccaggagaag ctggcccagg cctacagttc tttcctccgg ggctaccagg gggcagcagc 600

ggggaggtct ctgggctacg gggcccctgc tgctgcttac ggccagcagc agcagcccag 660

cagctacggg gcgccccccg cctccagcca gcagccctcc ggcttcttct ggtagccctg 720

cagcagcagc agcagcagca gcagcagcag cagcgcgggc ggcagccgcg gcggggccgg 780

ggcgccgctg cagcaacagc agcagccgnn ncggctagcg ccgcggagca ctcgcaggga 840

actccacagg cagcgggaga gcagcaggga cgagaagcag gtcatgtagc gcaggcagca 900

gcgccagctg cagcagcagc agcagcagca gcagcagcag cagcagctcc tgcaccg 957

<210> 75
<211> 1089
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<220>
<221> Misc_feature
<222> (376)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (377)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (847)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (848)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (849)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (850)
<223> N is any nucleic acid

<400> 75
gaattccctc caactcttcg cgactctctc tctctcgccc caacttttc ccccgcgccc 60

cgcagcagca gcagcagcag cagcagcaaa atggcagacc tcttcagcgg actcgtgggc 120

ggcgtcgtcg gcgctgttgc tgcagcagat ttgcctgcgg agggcgagag ggcccccgc 180

cccgcccccg gcactgcctg gacttgctgc tgcagcaaac tgcaagaagg ggcccgcgag 240

ctggagggtt ttctgcagca gctgagtttt gttgcaggga agctggcctg ctgcctgcgg 300

gtgggggcgg agcagctggc gcgctgcgct gcggaggggc ggctgcccag cagcagcagc 360

agcagcagct gctgcnngct gctgcagctc gagaagcagg acctcgagca gagcctcgag 420

gccggcaagc agggcgcgga gtgcctcttg aggagcagca aactggccct cgaggccctc 480

ctcgaggggg cccgcgttgc agcaacgcgg ggtttgctgc tggtcgagag cagcaaagac 540

acggtgctgc gcagcattcc ccacacccag gagaagctgg ctcaggccta cagttctttc 600

ctgcggggct accaggggggc agcagcgggg aggtctctgg gctacggggc ccctgctgct 660

gcttacggcc agcagcagca gcccagcagc tacggggcgc cccccgcctc cagccagcag 720

ccctccggct tcttctggta gccctgcagc agcagcagca gcagcagcag cagcagcagc 780

ggcggcggca gccgcggcgg ggccgggggcg ccgctgcagc aacagcagca gccgcggcgg 840

ctagcgnnnn gagcactcgc agggaactcc acaggcagcg ggagagcagc agggacgaga 900

agcaggtcta tgtagcgcag gcagcagcgc cagctgcagc agcagcagca gcagcagcag 960

cagcagcagc agctcctgca ccgcagcgtt gtgtcattta ttacgttggc agctctgagg 1020

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acggaattc 1089

<210> 76
<211> 1985
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 76
cgccgagctt tcggcacctc tgccgggtgg taccgagcct tcccggcgcc ccctcctctc 60

ctcccaccgg cctgcccttc cccgcgggac tatcgccccc acgtttccct cagccctttt 120

ctctcccggc cgagccgcgg cggcagcagc agcagcagca gcagcaggag gaggagcccg 180

gtggcggcgg tggccgggga gcccatggcg tacagtcaag gaggcggcaa aaaaaaagtc 240

tgctactact acgacggtga tattggaaat tattattatg gacagggtca tcccatgaag 300

cctcatagaa tccgcatgac ccataacttg ctgttaaatt atggcttata cagaaaaatg 360

gaaatatata ggccccataa agccactgcc gaagaaatga caaaatatca cagtgatgag 420

tatatcaaat ttctacggtc aataagacca gataacatgt ctgagtatag taagcagatg 480

catatattta atgttggaga agattgtcca gcgtttgatg gactctttga gttttgtcag 540

ctctcaactg gcggttcagt tgctggagct gtgaagttaa accgacaaca gactgatatg 600

gctgttaatt gggctggagg attacatcat gctaagaaat acgaagcatc aggattctgt 660

tacgttaatg atattgtgct tgccatcctt gaattactaa agtatcatca gagagtctta 720

tatattgata tagatattca tcatggtgat ggtgttgaag aagcttttta tacaacagat 780

cgtgtaatga cggtatcatt ccataaatat ggggaatact ttcctggcac aggagacttg 840

agggatattg gtgctggaaa aggcaaatac tatgctgtca attttccaat gtgtgatggt 900

atagatgatg agtcatatgg gcagatattt aagcctatta tctcaaaggt gatggagatg 960

tatcaaccta gtgctgtggt attacagtgt ggtgcagact cattatctgg tgatagactg 1020

ggttgtttca atctaacagt caaaggtcat gctaaatgtg tagaagttgt aaaaactttt 1080

aacttaccat tactgatgct tggaggaggt ggctacacaa tccgtaatgt tgctcgatgt 1140

tggacatatg agactgcagt tgcccttgat tgtgagattc ccaatgagtt gccatataat 1200

gattactttg agtattttgg accagacttc aaactgcata ttagtccttc aaacatgaca 1260

aaccagaaca ctccagaata tatggaaaag ataaaacagc gtttgtttga aaatttgcgc 1320

atgttacctc atgcacctgg tgtccagatg caagctattc cagaagatgc tgttcatgaa 1380

gacagtggag atgaagatgg agaagatcca gacaagagaa tttctattcg agcatcagac 1440

aagcggatag cttgtgatga agaattctca gattctgagg atgaaggaga aggaggtcga 1500

agaaatgtgg ctgatcataa gaaaggagca aagaaagcta gaattgaaga agataagaaa 1560

gaaacagagg acaaaaaaac agacgttaag gaagaagata aatccaagga caacagtggt 1620

gaaaaaacag ataccaaagg aaccaaatca gaacagctca gcaacccctg aatttgacag 1680

tctcaccaat ttcagaaaat cattaaaaag aaaatattga aaggaaaatg ttttcttttt 1740

gaagacttct ggcttcattt tatactactt tggcatggac tgtatttatt ttcaaatggg 1800

acttttttcgt ttttgttttt ctgggcaagt tttattgtga gattttctaa ttatgaagca 1860

aaatttcttt tctccaccat gctttatgtg atagtattta aaattgatgt gagttattat 1920

gtcaaaaaaa ctgatctatt aaagaagtaa ttggcctttc tgagctgaaa aaaaaaaaaa 1980

aaaag 1985

<210> 77
<211> 476
<212> DNA
<213> Unknown

<220>
<223> Description of Unknown Organism:Unknown

<400> 77
ccaccctcct ccccctcccc cggccacttc gctaacttgg tggctgttgt gatgcgtatt 60

cctgtagatc cgagcaccag ccggcgcttc agcccccccc ccagcagcct gcagcccggc 120

aaaatgagcg acgtgagccc ggtggtggct gcgcaacagc agcagcaaca gcagcagcag 180

caacagcagc agcagcagca gcaacagcag cagcagcagc aggaggcggc ggcggcggct 240

gcggcggcag cggcggctgc ggcggcggca gctgcagtgc cccggttgcg gccgccccac 300

gacaaccgca ccatggtgga gatcatcgcc gaccacccgg ccgaactcgt ccgcaccgac 360

agccccaact tcctgtgctc ggtgctgccc tcgcactggc gctgcaacaa gaccctgccc 420

gtggccttca aggtaagagg ctaccccgcc ccccgccccc ggccgggagc ggcgga 476

<210> 78
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 78
gcattttgga tccgcctttt catg 24

<210> 79
<211> 22
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 79
gttgtgtgct gcagattgtt cc 22

<210> 80
<211> 21
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 80
gaaaaatggg gatccgaggt g 21

<210> 81
<211> 20
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 81
gcaggagaat tccgtccatg 20

<210> 82
<211> 5
<212> PRT

<213> Homo sapiens

<220>
<221> Misc_feature
<222> (3)
<223> Xaa is any amino acid

<400> 82
Trp Ser Xaa Trp Ser
1 5

<210> 83
<211> 6
<212> PRT
<213> Homo sapiens

<400> 83
Cys Ser Val Thr Cys Gly
1 5

<210> 84
<211> 5
<212> PRT
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (4)
<223> Xaa is any amino acid

<400> 84
Gly Cys Gln Xaa Arg
1 5

<210> 85
<211> 733
<212> DNA
<213> Homo sapiens

<400> 85
gggatccgga gcccaaatct tctgacaaaa ctcacacatg cccaccgtgc ccagcacctg 60

aattcgaggg tgcaccgtca gtcttcctct tccccccaaa acccaaggac accctcatga 120

tctcccggac tcctgaggtc acatgcgtgg tggtggacgt aagccacgaa gaccctgagg 180

tcaagttcaa ctggtacgtg gacggcgtgg aggtgcataa tgccaagaca aagccgcggg 240

aggagcagta caacagcacg taccgtgtgg tcagcgtcct caccgtcctg caccaggact 300

ggctgaatgg caaggagtac aagtgcaagg tctccaacaa agccctccca acccccatcg 360

agaaaaccat ctccaaagcc aaagggcagc cccgagaacc acaggtgtac accctgcccc 420

catcccggga tgagctgacc aagaaccagg tcagcctgac ctgcctggtc aaaggcttct 480

atccaagcga catcgccgtg gagtgggaga gcaatgggca gccggagaac aactacaaga 540

ccacgcctcc cgtgctggac tccgacggct ccttcttcct ctacagcaag ctcaccgtgg 600

acaagagcag gtggcagcag gggaacgtct tctcatgctc cgtgatgcat gaggctctgc 660

acaaccacta cacgcagaag agcctctccc tgtctccggg taaatgagtg cgacggccgc 720

gactctagag gat 733

<210> 86
<211> 86
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 86
gcgcctcgag atttccccga aatctagatt tccccgaaat gatttccccg aaatgatttc 60

cccgaaatat ctgccatctc aattag 86

<210> 87
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:DNA Primer

<400> 87
gcggcaagct ttttgcaaag cctaggc 27

<210> 88
<211> 271
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Fragment

<400> 88
ctcgagattt ccccgaaatc tagatttccc cgaaatgatt tccccgaaat gatttccccg 60

aaatatctgc catctcaatt agtcagcaac catagtcccg cccctaactc cgcccatccc 120

gcccctaact ccgcccagtt ccgcccattc tccgccccat ggctgactaa ttttttttat 180

ttatgcagag gccgaggccg cctcggcctc tgagctattc cagaagtagt gaggaggctt 240

ttttggaggc ctaggctttt gcaaaaagct t 271

<210> 89

<211> 32
<212> DNA

<213> Homo sapiens

<400> 89
gcgctcgagg gatgacagcg atagaacccc gg 32

<210> 90
<211> 31
<212> DNA
<213> Homo sapiens

<400> 90
gcgaagcttc gcgactcccc ggatccgcct c 31

<210> 91
<211> 12
<212> DNA
<213> Homo sapiens

<400> 91
ggggactttc cc 12

<210> 92
<211> 73
<212> DNA
<213> Homo sapiens

<400> 92
gcggcctcga ggggactttc ccggggactt tccggggact ttccgggact ttccatcctg 60

ccatctcaat tag 73

<210> 93
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> Description of Artificial Sequence:PCR Fragment

<400> 93
gcggcaagct ttttgcaaag cctaggc 27

<210> 94
<211> 652
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature

<222> (524)
<223> N is any nucleic acid

<400> 94
ggcataagat cacactttag ttcagagaca catttgcata aatacttgaa atggatccac 60

ccctgcaggt ggcagcctga gaacatggcg ctgcaggggg accagggcag cgtctggttc 120

aggtggacga acagcggtgc catcacgtgg tgcttgccca tgggcccgaa gagccgtgtg 180

cagggcttgg agtcgtcgtg gggcatgctg aggacgtgcc ctagttcatg ggccagggtg 240

tgggccgcct ggagcccctc atcctcgatc acggagcagc ttttgttggg gtcacaaatg 300

gtcccgatgt ctgccacacc cagggtgtca cacagcccct cctgcccaca gaagttctgt 360

ctggtgagca ggatggccgt gtcgtagtgc tctgggtggc ggtcgctggg ctggttgaaa 420

cgccgctgcc agttgcagaa gttacgcagt gtaagccccc cattgtcgga cacctctggg 480

ccccattttt catcttctac gatcagcact tttaccacca tcangttgat ggaattcttg 540

atgctggggt gcttgtagaa tcgggcttgc cacgaaaatt aacctcagga tgtggttctg 600

caggtcggcc cgtaaagggc gccatggacg catcggccac caacagcgtt tc 652

<210> 95
<211> 716
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (578)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (658)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (666)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (678)
<223> N is any nucleic acid

<400> 95
taagtttgct agtcctttgc aaacagactg acgctgagtg tcctgtctga gtcaataagt 60

gcacttttac cttttaacct atgccctcta cttgaacccg agcaaggtcc agtccactgg 120

acagttgatg atagggtctg ccgccccata ccctctcctc ttccccctta ggaatttgtg 180

cagtactgga ggggttgcgg caatgggagg cctgggtggg ccgtgctgcc ttgatatggc 240

caagggaccc agtcaccaca gtggagaccc ttgtctgcac ctcagtaccg catgtccagg 300

agcacaagac tggcccctgc ccccctgaat cacaggggc acagctggct ttcgcagggc 360

ttggcatcct cgggtttcag agccttgttg caggtggcag aggcctggcc ggaggggtcc 420

ctgcactcta cagttcgcct ctgccagccg gccccgcagg tgctagagca ctcagaccag 480

tcccccagca cccactgtgc gtggagcagc ggctggatga tgttggtggt tgctctctct 540

ttgctgctct gcatgctaaa agtcacgtca ttaggaanca aagaaggtgt atttgacttt 600

ttgggggggaa gaacctcgcc caggactgtc aggagctgca ctgtcagaag gctctgcnaa 660

ggcccngaag ctctgcangc gctccagggt ggcgatggag ccgtgtactt caggat 716

<210> 96
<211> 543
<212> DNA
<213> Homo sapiens

<400> 96
ggcataagat cacactttag ttcagagaca catttgcata aatacttgaa atggatccac 60

ccctgcaggt ggcagcctga gaacatggcg ctgcaggggg accagggcag cgtctggttc 120

aggtggacga acagcggtgc catcacgtgg tgcttgccca tggcctcgaa gagccgtgtg 180

cagggcttgg agtcgtcgtg gggcatgctg aggacgtgcc ctagttcatg ggccagggtg 240

tgggccgctg gagccctcat cctcgatcac ggagcagctt ttgttggggt cacaaatggt 300

cccgatgtct gccacaccca gggtgtcaca cagcccctcc tgcccacaga agttctgtct 360

ggtgagcagg atggccgtgt cgtagtgctc tgggtggcgg tcgctgggct ggttgaaacg 420

ccgctgccag ttgcagaagt tacgcagtgt aaggccccca ttgtcggaca gctctggggc 480

ccatttttca tcttctacga tcagcacttt taaccacatc aggttgatgg aattcttgat 540

gcc 543

<210> 97
<211> 377
<212> DNA
<213> Mus musculus

<400> 97
gcaaagtgcc accacccttc ggatccaaaa ctagaagcaa gaggtttgtg tccgaggctc 60

gcttcgtgga aacacttctg gtggctgatg cgtccatggc tgccttctat gggaccgacc 120

tgcagaacca catcctcacg gtgatgtcaa tggcagcccg aatctacaag cacccgagca 180

tcaagaactc cgtcaacctt gtggtggtga aagtgctaat agtggaagag gaaggatggg 240

gcccggaggt gtcggacaac ggggggctca cactgcgcaa cttctgcagc tggcaacggc 300

gtttcaacaa gcccagtgac cgccacccgg agcactatga cactgccatc ttgttcacca 360

gacagaactt ctgtggg 377

<210> 98
<211> 432
<212> DNA
<213> Rattus norvegicus

<220>
<221> Misc_feature
<222> (42)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (214)
<223> N is any nucleic acid

<400> 98
ctaaagtaca gtggttccat ggccaccctg gagcggctgc anagcttcca agccctccct 60

gagcctctta cagtacagct cctgactgtg tctggtgagg tcttccctcc aaaagtcaaa 120

tataccttct tcgtccccaa tgacacggac ttcaacgtgc agagtagcaa agaaagagca 180

agcaccaaca tcattcagtc cttgccctat gcanagtggg tgctggggga ctggtctgaa 240

tgtccaagca catgtggagg tggctggcag cggcggactg tggaatgcag ggacccctca 300

ggtcaggcct ctgacacctg tgatgaggct ctgaaacctg aggatgccaa gccctgtgga 360

agccagccat gtctcctctg atccccttgg tggacatgtc taaggcttat ggatttgggc 420

tactggcgtt tt 432

<210> 99
<211> 354
<212> DNA
<213> Mus musculus

<400> 99
caaagtgcac cacccttcgg atccaaaact agaagcaaga ggtttgtgtc cgaggctcgc 60

ttcgtggaaa cacttctggt ggctgatgcg tccatggctg ccttctatgg gaccgacctg 120

cagaaccaca tcctcacggt gatgtcaatg gcagccacga atctacaagc acccgagcat 180

caggaactcc gtcaaccttg tggtggtgaa agtgctaata gtggaagagg aaggatgggg 240

cccggagtgt cggacaacgg ggggctcaca ctgcgcaact tctgcagctg gcaacggcgt 300

ttcaacaagc ccagtgaccg ccacccggag cactatgaca ctgccatctt gttc 354

<210> 100
<211> 389

<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (136)
<223> N is any nucleic acid

<400> 100
ttgtgcccag aagacactgg ccctggggcc tgggttgagt tcaaaaccaa aagaaagaag 60

aaaagtgctg taaattcggg atttctccac cggatgctcc tgcttccgca tgggtgtcac 120

ctccatgccg ttcctncctc tttctaggga aaagcttcag ggagcagcag tgtgagaagt 180

ataatgccta caattacact gacatggacg ggaatctcct gcagtgggtc cccaagtatg 240

ctggggtgtc cccccgggac cgcctggcaa gttgttctgc cgagcccggg ggaggagcga 300

gttcaaagtg ttcgaggcca aggtgagaat caccctgggg gacttcagat ccagagatgg 360

ggggagggaa ggtcggcctg ttccccaca 389

<210> 101
<211> 305
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (128)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (146)
<223> N is any nucleic acid

<400> 101
catttaagtt tgctagtcct ttgcaaacag actgacgctg agtgtcctgt ctgagtcaat 60

aagtgcactt ttacctttta acctatgccc tctacttgaa cccgagcaag gtccagtcca 120

ctggacangt tgatgatagg gtctgncgcc ccataccctc tcctcttccc ccttaggaat 180

ttgtgcagta ctggaggggt tgcggcaatg ggaggcctgg gtgggccgtg ctgccttgat 240

atggccaagg gacccagtca ccacagtgga gacccttgtc tgcacctcag taccgcatgt 300

ccagg 305

<210> 102
<211> 152
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (105)

<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (122)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (135)
<223> N is any nucleic acid

<400> 102
atcgtagaag atgaaaaatg gggcccagag gtgtccgaca atgggggget tacactgcgt 60

aacttctgca actggcagcg gcgtttcaac cagcccagcg accgncaccc agagcactac 120

gncacggcca tcctnctcac cagacagaac tt 152

<210> 103
<211> 632
<212> DNA

<213> Homo sapiens

<400> 103
tttaataata ataatgcccg gggctttatt atgctgtatc actgctcaga ggttaataat 60

cctcactaac tatcctatca aatttgcaac tggcagttta ctctgatgat tcaactcctt 120

ttctatctac ccccataatc ccaccttact gatacacctc actggttact ggcaagatac 180

gctggatccc tccagccttc ttgctttccc tgcaccagcc cttcctcact ttgccttgcc 240

ctcaaagcta acaccactta aaccacttaa ctgcattctg ccattgtgca aaagtctatg 300

aaatgtttag gtttctttaa aggatcacag ctctcatgag ataacacccc tccatcatgg 360

gacagacact tcaagcttct ttttttgtaa cccttcccac aagtcttaga acatgatgac 420

cactccccca gctgccactg ggggcaggga tggtctgcac aaggtctggt gctggctggc 480

ttcacttcct ttgcacactc ggaagcaggc tgtccattaa tgtctcggca ttctaccagt 540

cttctctgcc aacccaattc acatgactta gaacattcgc cccactcttc aatgacccat 600

gctgaaaaag tggggatagc attgaaagaa tc 632

<210> 104
<211> 519
<212> DNA
<213> Homo sapiens

<400> 104
ttttttttcta aacttgtaat agatgtaaca aaagaaataa taataataat gcccggggct 60

ttattatgct atatcactgc tcagaggtta ataatcctca ctaactatcc tatcaaattt 120

gcaactggca gtttactctg atgattcaac tccttttcta tctaccccca taatcccacc 180

ttactgatac acctcactgg ttactggcaa gatacgctgg atccctccag ccttcttgct 240

ttccctgcac cagcccttcc tcactttgcc ttgccctcaa agctaacacc acttaaacca 300

cttaactgca ttctgccatt gtgcaaaagt ctatgaaatg tttaggtttc tttaaaggat 360

cacagctctc atgagataac acccctccat catgggacag acacttcaag cttctttttt 420

tgtaaccctt cccacaggtc ttagaacatg atgaccactc ccccagctgc cactgggggc 480

agggatgtct gcacaagggc tggtgctggc tgcccggac 519

<210> 105
<211> 475
<212> DNA
<213> Homo sapiens

<400> 105
gagtcatgat gcgatcacaa ccagctttta cacactgtcc ttgcacacag acagaggtgg 60

aatctgggct acatggagta ccatctacaa ccttgggctg caaaacgaag aagtagccaa 120

tgcctttggc ttggcagatg agcttgcacc tgtcctttgg tgagacgcca gcgtacttgg 180

gaatccattc caccgcaggc ccactcccaa aggaagcttt tgaaaactcg ttgtgtgctt 240

cacattgttc ctctctaaag gtttttccat tattgtctgg acagtcctca aggttacagg 300

atctgtagcg cactcgtttg ccttcacagt acttccctcc attctttggg actgggttgt 360

cacattccct catcgtgtac tggactcctc caccgcacgt tctcgaacag tctccccaag 420

gcccccacat tccccagctt ccatgaaaag gcgtatcaaa atgctttctg tcggt 475

<210> 106
<211> 455
<212> DNA
<213> Homo sapiens

<400> 106
aataataata atgcccgggg ctttattatg ctgtatcact gctcagaggt taataatcct 60

cactaactat cctatcaaat ttgcaactgg cagtttactc tgatgattca actccttttc 120

tatctacccc cataatccca ccttactgat acacctcact ggttactggc aagatacgct 180

ggatccctcc agccttcttg ctttccctgc accagccctt cctcactttg ccttgccctc 240

aaagctaaca ccacttaaac cacttaactg cattctgcca ttgtgcaaaa gtctatgaaa 300

tgtttaggtt tctttaaagg atcacagctc tcatgagata acacccctcc atcatgggac 360

agacacttca agcttctttt tttgtaaccc ttcccacagg tcttagaaca tgatgaccac 420

tcccccagct gccactgggg gcagggatgg tctgg 455

<210> 107
<211> 515
<212> DNA
<213> Homo sapiens

<400> 107
aacccttccc acaggtctta gaacatgatg accactcccc cagctgccac tgcggggcag 60

ggatggtctg cacaaggtct ggtgctggct ggcttcactt cctttgcaca ctcggaagca 120

ggctgtccat taatgtctcg gcattcttcc agtcttctct gccaacccaa ttcacatgac 180

ttagaacatt cgccccactc ttcaatgacc catgctgaaa aagtggggat agcattgaaa 240

gattccttct tcttctttac gaagtaggtg tatttaattt taggtcgaag ggcattgcca 300

cagtaagaac ctggatggtc aagggctctt tggagcaggc taaagctgcg aattctttcc 360

aatgccgcag aggagccgct gtacctcaag acaacacctt tgtacataat gtcttgctct 420

aaggtggaca aagtgtagtc accataaaga atatatgtgc catcagcagc ttttgatggc 480

aggaagctgt cattgttctt ggatccctct gttcc 515

<210> 108
<211> 359
<212> DNA
<213> Homo sapiens

<400> 108
acttcgtaaa gaagaagaag gaatctttca atgctatccc cacttttca gcatgggtca 60

ttgaagagtg gggcgaatgt tctaagtcat gtgaattggg ttggcagaga agactggtag 120

aatgccgaga cattaatgga cagcctgctt ccgagtgtgc aaaggaagtg aagccagcca 180

gcaccagacc ttgtgcagac catccctgcc cccagtggca gctgggggaa gtggtcatca 240

tgttctaaga cctgcgggaa gggttacaaa aaaagaagct ttgaagtgtc ttgtcccatg 300

atggaggggt gttatctcat tgagagctgt gatcctttaa agaaacctaa acatttcat 359

<210> 109
<211> 320
<212> DNA
<213> Homo sapiens

<400> 109
cagagaacat tcgccccact cttcaatgac ccatgctgaa aaagtgggga tagcattgaa 60

agattccttc ttcttcttta cgaagtaggt gtatttaatt ttaggtcgaa gggcattgcc 120

cacagtaaga acctggatgg tcaagggctc tttgagaggg ctaaagctgc gaattctttc 180

caatgccgca gaggagccgc tgtacctcaa gacaacacct ttgtacataa tgtcttgctc 240

taaggtggac aaagtgtagt caccattaag aatatatgtg ccatcagcag ctttgatggc 300

aagaaagctg cccttgttcc 320

<210> 110
<211> 316
<212> DNA
<213> Homo sapiens

<400> 110
aatgccgaga cattaatgga cagcctgctt ccgagtgtgc aaaggaagtg aagccagcca 60

gcaccagacc ttgtgcagac catccctgcc cccagtggca gctgggggag tggtcatcat 120

gttctaagac ctgtgggaag ggttacaaaa aaagaagctt gaagtgtctg tcccatgatg 180

gaggggtgtt atctcatgag agctgtgatc ctttaaagaa acctaaacat ttcatagact 240

tttgcacaat ggcagaatgc agttaagtgg tttaagtggt gttagctttg agggcaaggc 300

aaagtgagga agggct 316

<210> 111
<211> 318

<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (4)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (6)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (261)
<223> N is any nucleic acid

<400> 111
agantnccga gacattaatg gacagcctgc ttccgagtgt gcaaaggaag tgaagccagc 60

cagcaccaga ccttgtgcag accatccctg cccccagtgg cagctggggg agtggtcatc 120

atgttctaag acctgtggga agggttacaa aaaaagaagc ttgaagtgtc tgtcccatga 180

tggaggggtg ttatctcatg agagctgtga tcctttaaag aaacctaaac atttcataga 240

cttttgcaca atggcagaat ncagttaagt ggtttaagtg gtgttagctt tgagggcaag 300

gcaaagtgag gaagggct 318

<210> 112
<211> 314

<212> DNA
<213> Homo sapiens

<400> 112
ttttttttct aaacttgtaa tagatgtaac aaaagaaata ataataataa tgcccggggc 60

tttattatgc tatatcactg ctcagaggtt aataatcctc actaactatc ctatcaaatt 120

tgcaactggc agtttactct gatgattcaa ctccttttct atctaccccc ataatcccac 180

cttactgata cacctcactg gttactggca agatacgctg gatccctcca gccttcttgc 240

tttccctgca ccagcccttc ctcactttgc cttgccctca aagctaacac cacttaaacc 300

acttaactgc attc 314

<210> 113
<211> 316
<212> DNA
<213> Homo sapiens

<400> 113
aaggaatcct tcaatgctat ccccactgtt tcagcatggg tcattgaaga gtggggcgaa 60

tgttctaagt catgtgaatt gggttggcag aaaagacttg tagaatgccg agacattaat 120

ggacagcctg cgtccgagtg tgcaaaggaa gtgaagccag ccagcaccag accttgtgca 180

gaccatccct gcccccagtg gcagctgggg ggagtggtca tcatgttcta agacctgtgg 240

gaaggggtac aaaaaaagag gcgtgaagtg tctgtcccat gatggagggg tttatctcat 300

gagaactgtg atcctt 316

<210> 114
<211> 265
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (10)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (11)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (15)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (97)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (231)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (249)
<223> N is any nucleic acid

<400> 114
agcagtttan ncctntcaaa gagcccttga ccatccaggt tcttactgtg ggcaatgccc 60

ttcgacctaa aattaaatac acctacttcg taaagangaa gaaggaatct ttcaatgcta 120

tccccacttt ttcagcatgg gtcattgaag agtggggcga atgttctaag tcatgtgaat 180

tgggttggca gagaagactg gtagaatgcc gagacattaa tggacagcct ncttccgagt 240

gtgcaaagna agtgaagcca gccag 265

<210> 115
<211> 334
<212> DNA

<213> Mus musculus

<400> 115
cgtttgtgga ggaaacggtt ccacatgcaa gaagatgtca ggaatagtca ctagtacaag 60

acctgggtat catgacattg tcacaattcc tgctggagcc accaacattg aagtgaaaca 120

tcggaatcaa agggggtcca gaaacaatgg cagctttctg gctattagag ccgctgatgg 180

tacctatatt ctgaatggaa acttcactct gtccacacta gagcaagacc tcacctacaa 240

aggtactgtc ttaaggtaca gtggttcctc ggctgcgctg gagagaatcc gcagctttag 300

tccactcaaa gaacccttaa ccatccaggt tctt 334

<210> 116
<211> 528
<212> DNA
<213> Mus musculus

<400> 116
agaattcctg gatgatggtc atggtaattg cttccgtggt aggtctagca aacaattacc 60

atgaccatca tccaggaatt ctgtgatggt ggctgacgtg catttggacc agggcttgga 120

tgcatcgatg ctggtaagga ttgaagacat taaacgcttg tcttctgtag taccgaagtt 180

ctcttcacag aatttggaat cgtcatgaga aaggccaagt agatgcccaa tttcatgagc 240

cacagtgaag gctgcatgga ggccatcatc ttcaatcact gcacagctgc gctccggaga 300

acatatggtc ccaacgtctg ccattcccag ggtgtcacat gaatgatgcc cacataaatc 360

ctctcgggtg aacaggatgg ctgcatcgta gtgctcttcg tgatcatccc ctagctggtt 420

atgttggtgc tgccatttgc aaaagttctt gagggtcgtg gccgcattct tgctcacctc 480

cagactcgtg tccttgtccg tcagcaccac caccttcacc accgccag 528

<210> 117
<211> 438
<212> DNA
<213> Homo sapiens

<220>
<221> Misc_feature
<222> (389)
<223> N is any nucleic acid

<220>
<221> Misc_feature
<222> (432)
<223> N is any nucleic acid

<400> 117
atttgatagg atagttagtg aggattatta acctctgagc agtgatatag cataataaag 60

ccccgggcat tattattatt atttcttttg ttacatctat tacaagttta gaaaaaacaa 120

agcaattgtc aaaaaaagtt agaactatta caacccctgt ttcctggtac ttatcaaata 180

cttagtatca tgggggttgg gaaatgaaaa gtaggagaaa agtgagattt tactaagacc 240

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agcactgttt atgggctgct atgggtttca gaggaatgtt tatacattat ttctacccga 360

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agcaattgtc aaaaaaagtt agaactatta caacccctgt ttcctggtac ttatcaaata 180

cttagtatca tgggggttgg gaaatgaaaa gtaggagaaa agtgagattt tactaagacc 240

tgttttactt tacctcacta acaatggggg gagaaaggag tacaaatagg atctttgacc 300

agcactgttt atggctgcta tggtttcaga gaatgtttat acattatttc taccgaggat 360

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aagcaattgt caaaaaaagt tagaactatt acaacccctg tttcctggta cttatcaaat 180

acttagtatn atgggggttg ggaaatgaaa agtaggagaa aagtgagatt ttactaagac 240

ctgttttact ttacctcact aacaatgggg ggagaaagga gtacanatag gatctttgac 300

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nttaaaactt cagattgttc 380

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tattacaacc cctgtttcct ggtacttatc aaatacttag tatcatgggg gttgggaaat 180

gaaaagtagg aggaaagnng agnttttact aagacctgtt ttacctttac ctcactaaca 240

atgggggggag aaaggagtac aaataggatc tttgaccagc actgtttatg gctgctatgg 300

tttcagagaa tgtttataca ttatttctac cgagaattaa aacttcagat tgttcaacat 360

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gggaccatct caggtcctt 439

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tctattacaa gtttagaaaa aacaaagcaa ttgtcaaaaa aagttagaac tattacaacc 180

cctgtttcct ggtacttatc aaatacttag tatcatgggg gttgggaaat gaaaagtagg 240

agaaaagtga gattttacta agacctgttt tacttttcct cactaacaat ggggggagaa 300

aggagtacaa ataggatctt tgaccagcac tgtttatggc tgctatggtt tcagagaatg 360

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tgggaaatga aaagtaggag aaaagtgaga ttttactaag acctgtttta ctttacctca 240

ctaacaatgg ggggagaaag gagtacaaat aggatctttg accagcactg tttatggctg 300

ctaatggttt cagagaatgt ttatacatta tttctacccg agaattaaaa cttcagattg 360

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taggagaaaa gtgagatttt actaagacct gttttacttt acctcactaa caatgggggg 180

agaaaggagt acaaatagga tctttgacca gcactgttta tggctgctat ggtttcagag 240

aatgtttata cattatttct accgagaatt aaaacttcag attgttcaac atgagagaaa 300

ggctcagcaa cgtgaaataa cgcaaatggc ttcctctttc ctttttgga ccacagccag 360

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tgtttgatgg acaagctcag aatcccatac agntccca 458

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gaggccgaag aggggcgcca ggcaccaatc tccgcgttgc ctcagccccg gaggcgcccc 180

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ctccgggagc ttcggctgta gccggctctg cgcgcccttc caacgaataa tagaaattgt 360

taattttaac aatccagagc aggccaacga ggctttgctc tcccgacccg aactaaagct 420

ccctcgctcc gtgcgctgct acgagcggtg tctcctgggg ctcca atg cag cga gct 477
Met Gln Arg Ala
1

gtg ccc gag ggg ttc gga agg cgc aag ctg ggc agc gac atg ggg aac 525
Val Pro Glu Gly Phe Gly Arg Arg Lys Leu Gly Ser Asp Met Gly Asn
5 10 15 20

gcg gag cgg gct ccg ggg tct cgg agc ttt ggg ccc gta ccc acg ctg 573
Ala Glu Arg Ala Pro Gly Ser Arg Ser Phe Gly Pro Val Pro Thr Leu

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                25                  30                  35

ctg ctg ctc gcc gcg gcg cta ctg gcc gtg tcg gac gca ctc ggg cgc      621
Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp Ala Leu Gly Arg
            40                  45                  50

ccc tcc gag gag gac gag gag cta gtg gtg ccg gag ctg gag cgc gtc      669
Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu Leu Glu Arg Val
        55                  60                  65

ccg gga cac ggg acc acg cgc ctc cgc ctg cac gcc ttt gac cag cag      717
Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala Phe Asp Gln Gln
    70                  75                  80

ctg gat ctg gac gtg ccg ccc gac agc agc ttt ttg gcg ccc ggc ttc      765
Leu Asp Leu Asp Val Pro Pro Asp Ser Ser Phe Leu Ala Pro Gly Phe
85                  90                  95                  100

acg ctc cag aac gtg ggg cgc aaa tcc ggg tcc gac acc ccg ctt ccg      813
Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Asp Thr Pro Leu Pro
                105                 110                 115

gaa acc gac ctg gcg cac tgc ttc tac tcc ggc acc gtg aat ggc gat      861
Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr Val Asn Gly Asp
            120                 125                 130

ccc agc tcg gct gcc gcc ctc agc ctc tgc gag ggc gtg cgc ggc gcc      909
Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly Val Arg Gly Ala
        135                 140                 145

ttc tac ctg ctg ggg gag gcg tat ttc atc cag ccg ctg ccc gcc gcc      957
Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro Leu Pro Ala Ala
    150                 155                 160

agc gag cgc ctc gcc acc gcc gcc cca ggg gag aag ccg ccg gca cca     1005
Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys Pro Pro Ala Pro
165                 170                 175                 180

cta cag ttc cac ctc ctg cgg cgg aat cgg cag ggc gac gta ggc ggc     1053
Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly Asp Val Gly Gly
                185                 190                 195

acg tgc ggg gtc gtg gac gac gag ccc cgg ccg act ggg aaa gcg gag     1101
Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr Gly Lys Ala Glu
            200                 205                 210

acc gaa gac gag gac gaa ggg act gag ggc gag gac gaa ggg cct cag     1149
Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp Glu Gly Pro Gln
        215                 220                 225

tgg tcg ccg cag gac ccg gca ctg caa ggc gta gga cag ccc aca gga     1197
Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly Gln Pro Thr Gly
    230                 235                 240

act gga agc ata aga aag aag cga ttt gtg tcc agt cac cgc tat gtg     1245
Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser His Arg Tyr Val
245                 250                 255                 260

gaa acc atg ctt gtg gca gac cag tcg atg gca gaa ttc cac ggc agt     1293
Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu Phe His Gly Ser
                265                 270                 275
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ggt cta aag cat tac ctt ctc acg ttg ttt tcg gtg gca gcc aga ttg     1341
Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val Ala Ala Arg Leu
            280                 285                 290

tac aaa cac ccc agc att cgt aat tca gtt agc ctg gtg gtg gtg aag     1389
Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu Val Val Val Lys
        295                 300                 305

atc ttg gtc atc cac gat gaa cag aag ggg ccc gaa gtg acc tcc aat     1437
Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu Val Thr Ser Asn
    310                 315                 320

gct gcc ctc act ctg cgg aac ttt tgc aac tgg cag aag cag cac aac     1485
Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln Lys Gln His Asn
325                 330                 335                 340

cca ccc agt gac cgg gat gca gag cac tat gac aca gca att ctt ttc     1533
Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr Ala Ile Leu Phe
                345                 350                 355

acc aga cag gac ttg tgt ggg tcc cag aca tgt gat act ctt ggg atg     1581
Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp Thr Leu Gly Met
            360                 365                 370

gct gat gtt gga act gtg tgt gat ccg agc aga agc tgc tcc gtc ata     1629
Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser Cys Ser Val Ile
        375                 380                 385

gaa gat gat ggt tta caa gct gcc ttc acc aca gcc cat gaa tta ggc     1677
Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala His Glu Leu Gly
    390                 395                 400

cac gtg ttt aac atg cca cat gat gat gca aag cag tgt gcc agc ctt     1725
His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln Cys Ala Ser Leu
405                 410                 415                 420

aat ggt gtg aac cag gat tcc cac atg atg gcg tca atg ctt tcc aac     1773
Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser Met Leu Ser Asn
                425                 430                 435

ctg gac cac agc cag cct tgg tct cct tgc agt ggc tac atg att aca     1821
Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Gly Tyr Met Ile Thr
            440                 445                 450

tca ttt ctg gat aat ggt cat ggg gaa tgt ttg atg gac aag cct cag     1869
Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met Asp Lys Pro Gln
        455                 460                 465

aat ccc ata cag ctc cca ggc gat ctc cct ggc acc tcg tac gat gcc     1917
Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr Ser Tyr Asp Ala
    470                 475                 480

aac cgg cag tgc cag ttt aca ttt ggg gag gac tcc aaa cac tgc cct     1965
Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser Lys His Cys Pro
485                 490                 495                 500

gat gca gcc agc aca tgt agc acc ttg tgg tgt acc ggc acc tct ggt     2013
Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr Gly Thr Ser Gly
                505                 510                 515

ggg gtg ctg gtg tgt caa acc aaa cac ttc ccg tgg gcg gat ggc acc     2061
Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp Ala Asp Gly Thr
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            520                 525                 530

agc tgt gga gaa ggg aaa tgg tgt atc aac ggc aag tgt gtg aac aaa      2109
Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys Cys Val Asn Lys
        535                 540                 545

aac cac aga aag cat ttt gat acg cct ttt cat gga agc tgg gga atg      2157
Asn His Arg Lys His Phe Asp Thr Pro Phe His Gly Ser Trp Gly Met
    550                 555                 560

tgg ggg cct tgg gga gac tgt tcg aga acg tgc ggt gga gga gtc cag      2205
Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly Gly Gly Val Gln
565                 570                 575                 580

tac acg atg agg gaa tgt gac aac cca gtc cca aag aat gga ggg aag      2253
Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys Asn Gly Gly Lys
                585                 590                 595

tac tgt gaa ggc aaa cga gtg cgc tac aga tcc tgt aac ctt gag gac      2301
Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys Asn Leu Glu Asp
            600                 605                 610

tgt cca gac aat aat gga aaa acc ttt aga gag gaa caa tgt gaa gca      2349
Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu Gln Cys Glu Ala
        615                 620                 625

cac aac gag ttt tca aaa gct tcc ttt ggg agt ggg cct gcg gtg gaa      2397
His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly Pro Ala Val Glu
    630                 635                 640

tgg att ccc aag tac gct ggc gtc tca cca aag gac agg tgc aag ctc      2445
Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp Arg Cys Lys Leu
645                 650                 655                 660

atc tgc caa gcc aaa ggc att ggc tac ttc ttc gtt ttg cag ccc aag      2493
Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val Leu Gln Pro Lys
                665                 670                 675

gtt gta gat ggt act cca tgt agc cca gat tcc acc tct gtc tgt gtg      2541
Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr Ser Val Cys Val
            680                 685                 690

caa gga cag tgt gta aaa gct ggt tgt gat cgc atc ata gac tcc aaa      2589
Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile Ile Asp Ser Lys
        695                 700                 705

aag aag ttt gat aaa tgt ggt gtt tgc ggg gga aat gga tct act tgt      2637
Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn Gly Ser Thr Cys
    710                 715                 720

aaa aaa ata tca gga tca gtt act agt gca aaa cct gga tat cat gat      2685
Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro Gly Tyr His Asp
725                 730                 735                 740

atc atc aca att cca act gga gcc acc aac atc gaa gtg aaa cag cgg      2733
Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu Val Lys Gln Arg
                745                 750                 755

aac cag agg gga tcc agg aac aat ggc agc ttt ctt gcc atc aaa gct      2781
Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu Ala Ile Lys Ala
            760                 765                 770
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gct gat ggc aca tat att ctt aat ggt gac tac act ttg tcc acc tta      2829
Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr Leu Ser Thr Leu
        775                 780                 785

gag caa gac att atg tac aaa ggt gtt gtc ttg agg tac agc ggc tcc      2877
Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg Tyr Ser Gly Ser
    790                 795                 800

tct gcg gca ttg gaa aga att cgc agc ttt agc cct ctc aaa gag ccc      2925
Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro Leu Lys Glu Pro
805                 810                 815                 820

ttg acc atc cag gtt ctt act gtg ggc aat gcc ctt cga cct aaa att      2973
Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu Arg Pro Lys Ile
                825                 830                 835

aaa tac acc tac ttc gta aag aag aag aag gaa tct ttc aat gct atc      3021
Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser Phe Asn Ala Ile
            840                 845                 850

ccc act ttt tca gca tgg gtc att gaa gag tgg ggc gaa tgt tct aag      3069
Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly Glu Cys Ser Lys
        855                 860                 865

tca tgt gaa ttg ggt tgg cag aga aga ctg gta gaa tgc cga gac att      3117
Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu Cys Arg Asp Ile
    870                 875                 880

aat gga cag cct gct tcc gag tgt gca aag gaa gtg aag cca gcc agc      3165
Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val Lys Pro Ala Ser
885                 890                 895                 900

acc aga cct tgt gca gac cat ccc tgc ccc cag tgg cag ctg ggg gag      3213
Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp Gln Leu Gly Glu
                905                 910                 915

tgg tca tca tgt tct aag acc tgt ggg aag ggt tac aaa aaa aca agc      3261
Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr Lys Lys Thr Ser
            920                 925                 930

ttg aag tgt ctg tcc cat gat gga ggg gtg tta tct cat gac agc tgt      3309
Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser His Asp Ser Cys
        935                 940                 945

gat cct tta aag aaa cct aaa cat ttc ata gac ttt tgc aca atg gca      3357
Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe Cys Thr Met Ala
    950                 955                 960

gaa tgc agt taagtggttt aagtggtgtt agctttgagg gcaaggcaaa              3406
Glu Cys Ser
965

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aacgtctata cattatttct accgaggatt taaaacttcc agattgttcc aacatggaga 3946

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Val Pro Thr Leu Leu Leu Leu Ala Ala Ala Leu Leu Ala Val Ser Asp
35 40 45

Ala Leu Gly Arg Pro Ser Glu Glu Asp Glu Glu Leu Val Val Pro Glu
50 55 60

Leu Glu Arg Val Pro Gly His Gly Thr Thr Arg Leu Arg Leu His Ala
65 70 75 80

Phe Asp Gln Gln Leu Asp Leu Asp Val Pro Pro Asp Ser Ser Phe Leu
85 90 95

Ala Pro Gly Phe Thr Leu Gln Asn Val Gly Arg Lys Ser Gly Ser Asp
100 105 110

Thr Pro Leu Pro Glu Thr Asp Leu Ala His Cys Phe Tyr Ser Gly Thr
115 120 125

Val Asn Gly Asp Pro Ser Ser Ala Ala Ala Leu Ser Leu Cys Glu Gly
130 135 140

Val Arg Gly Ala Phe Tyr Leu Leu Gly Glu Ala Tyr Phe Ile Gln Pro
145 150 155 160

Leu Pro Ala Ala Ser Glu Arg Leu Ala Thr Ala Ala Pro Gly Glu Lys

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                165                 170                 175

Pro Pro Ala Pro Leu Gln Phe His Leu Leu Arg Arg Asn Arg Gln Gly
            180                 185                 190

Asp Val Gly Gly Thr Cys Gly Val Val Asp Asp Glu Pro Arg Pro Thr
        195                 200                 205

Gly Lys Ala Glu Thr Glu Asp Glu Asp Glu Gly Thr Glu Gly Glu Asp
    210                 215                 220

Glu Gly Pro Gln Trp Ser Pro Gln Asp Pro Ala Leu Gln Gly Val Gly
225                 230                 235                 240

Gln Pro Thr Gly Thr Gly Ser Ile Arg Lys Lys Arg Phe Val Ser Ser
                245                 250                 255

His Arg Tyr Val Glu Thr Met Leu Val Ala Asp Gln Ser Met Ala Glu
            260                 265                 270

Phe His Gly Ser Gly Leu Lys His Tyr Leu Leu Thr Leu Phe Ser Val
        275                 280                 285

Ala Ala Arg Leu Tyr Lys His Pro Ser Ile Arg Asn Ser Val Ser Leu
    290                 295                 300

Val Val Val Lys Ile Leu Val Ile His Asp Glu Gln Lys Gly Pro Glu
305                 310                 315                 320

Val Thr Ser Asn Ala Ala Leu Thr Leu Arg Asn Phe Cys Asn Trp Gln
                325                 330                 335

Lys Gln His Asn Pro Pro Ser Asp Arg Asp Ala Glu His Tyr Asp Thr
            340                 345                 350

Ala Ile Leu Phe Thr Arg Gln Asp Leu Cys Gly Ser Gln Thr Cys Asp
        355                 360                 365

Thr Leu Gly Met Ala Asp Val Gly Thr Val Cys Asp Pro Ser Arg Ser
    370                 375                 380

Cys Ser Val Ile Glu Asp Asp Gly Leu Gln Ala Ala Phe Thr Thr Ala
385                 390                 395                 400

His Glu Leu Gly His Val Phe Asn Met Pro His Asp Asp Ala Lys Gln
                405                 410                 415
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Cys Ala Ser Leu Asn Gly Val Asn Gln Asp Ser His Met Met Ala Ser
            420                 425                 430

Met Leu Ser Asn Leu Asp His Ser Gln Pro Trp Ser Pro Cys Ser Gly
        435                 440                 445

Tyr Met Ile Thr Ser Phe Leu Asp Asn Gly His Gly Glu Cys Leu Met
    450                 455                 460

Asp Lys Pro Gln Asn Pro Ile Gln Leu Pro Gly Asp Leu Pro Gly Thr
465                 470                 475                 480

Ser Tyr Asp Ala Asn Arg Gln Cys Gln Phe Thr Phe Gly Glu Asp Ser
                485                 490                 495

Lys His Cys Pro Asp Ala Ala Ser Thr Cys Ser Thr Leu Trp Cys Thr
            500                 505                 510

Gly Thr Ser Gly Gly Val Leu Val Cys Gln Thr Lys His Phe Pro Trp
        515                 520                 525

Ala Asp Gly Thr Ser Cys Gly Glu Gly Lys Trp Cys Ile Asn Gly Lys
    530                 535                 540

Cys Val Asn Lys Asn His Arg Lys His Phe Asp Thr Pro Phe His Gly
545                 550                 555                 560

Ser Trp Gly Met Trp Gly Pro Trp Gly Asp Cys Ser Arg Thr Cys Gly
                565                 570                 575

Gly Gly Val Gln Tyr Thr Met Arg Glu Cys Asp Asn Pro Val Pro Lys
            580                 585                 590

Asn Gly Gly Lys Tyr Cys Glu Gly Lys Arg Val Arg Tyr Arg Ser Cys
        595                 600                 605

Asn Leu Glu Asp Cys Pro Asp Asn Asn Gly Lys Thr Phe Arg Glu Glu
    610                 615                 620

Gln Cys Glu Ala His Asn Glu Phe Ser Lys Ala Ser Phe Gly Ser Gly
625                 630                 635                 640

Pro Ala Val Glu Trp Ile Pro Lys Tyr Ala Gly Val Ser Pro Lys Asp
                645                 650                 655

Arg Cys Lys Leu Ile Cys Gln Ala Lys Gly Ile Gly Tyr Phe Phe Val
            660                 665                 670
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Leu Gln Pro Lys Val Val Asp Gly Thr Pro Cys Ser Pro Asp Ser Thr
        675                 680                 685

Ser Val Cys Val Gln Gly Gln Cys Val Lys Ala Gly Cys Asp Arg Ile
    690                 695                 700

Ile Asp Ser Lys Lys Lys Phe Asp Lys Cys Gly Val Cys Gly Gly Asn
705                 710                 715                 720

Gly Ser Thr Cys Lys Lys Ile Ser Gly Ser Val Thr Ser Ala Lys Pro
                725                 730                 735

Gly Tyr His Asp Ile Ile Thr Ile Pro Thr Gly Ala Thr Asn Ile Glu
            740                 745                 750

Val Lys Gln Arg Asn Gln Arg Gly Ser Arg Asn Asn Gly Ser Phe Leu
        755                 760                 765

Ala Ile Lys Ala Ala Asp Gly Thr Tyr Ile Leu Asn Gly Asp Tyr Thr
    770                 775                 780

Leu Ser Thr Leu Glu Gln Asp Ile Met Tyr Lys Gly Val Val Leu Arg
785                 790                 795                 800

Tyr Ser Gly Ser Ser Ala Ala Leu Glu Arg Ile Arg Ser Phe Ser Pro
                805                 810                 815

Leu Lys Glu Pro Leu Thr Ile Gln Val Leu Thr Val Gly Asn Ala Leu
            820                 825                 830

Arg Pro Lys Ile Lys Tyr Thr Tyr Phe Val Lys Lys Lys Lys Glu Ser
        835                 840                 845

Phe Asn Ala Ile Pro Thr Phe Ser Ala Trp Val Ile Glu Glu Trp Gly
    850                 855                 860

Glu Cys Ser Lys Ser Cys Glu Leu Gly Trp Gln Arg Arg Leu Val Glu
865                 870                 875                 880

Cys Arg Asp Ile Asn Gly Gln Pro Ala Ser Glu Cys Ala Lys Glu Val
                885                 890                 895

Lys Pro Ala Ser Thr Arg Pro Cys Ala Asp His Pro Cys Pro Gln Trp
            900                 905                 910

Gln Leu Gly Glu Trp Ser Ser Cys Ser Lys Thr Cys Gly Lys Gly Tyr
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915 920 925

Lys Lys Thr Ser Leu Lys Cys Leu Ser His Asp Gly Gly Val Leu Ser
930 935 940

His Asp Ser Cys Asp Pro Leu Lys Lys Pro Lys His Phe Ile Asp Phe
945 950 955 960

Cys Thr Met Ala Glu Cys Ser
965